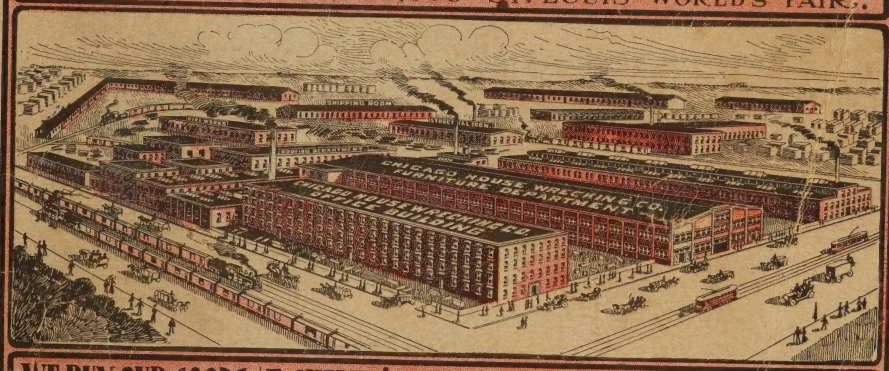
CATALOG NO. 157

1909

CHICAGO HOUSE WRECKING COMPANY

WE BOUGHT THE $50,000,000 ST. LOUIS WORLD'S FAIR.



WE BUY OUR GOODS AT SHERIFF'S, RECEIVER'S AND MANUFACTURER'S SALES

MERCHANDISE FOR THE HOME FIELD WORKSHOP

ADDRESS

35TH AND IRON STREETS

CHICAGO.

As to Our Responsibility

We refer you

To any Express Company, any Railroad Company, any Bank, any Commercial Institution, or if you want more positive proof write our Bank, whose letter we publish herewith.

DROVERS DEPOSIT NATIONAL BANK

UNION STOCK YARDS,
CAPITAL & SURPLUS $750,000.

Chicago, Ills

AVERY LIBRARY
COLUMBIA UNIVERSITY

TO WHOM IT MAY CONCERN

We take pleasure in testifying to the responsibility of the CHICAGO HOUSE WRECKING COMPANY who is a customer of this bank and who are incorporated under the laws of the State of Illinois, and have a fully paid up capital and surplus of $1,000,000.

They are the leading establishment of their kind in the world, occupying large quarters, and employing a great number of people.

The officers are personally known to us, and we know them to be first class business men who will carry out their agreements. We commend them to the business public, feeling sure that any contracts or dealings they may enter into, will be entirely satisfactory.

Yours truly,

Wm. A. Hilden

Chicago House Wrecking Co.

Capital Stock and Surplus
$1,000,000

35th and Iron Streets - Chicago, Illinois

AT
2-1
C432
1909

We Purchased the

WORLD'S FAIRS

of

St. Louis and Chicago and the Expositions of Buffalo and Omaha, built at a cost of

NINETY MILLION DOLLARS

We are the

FOREMOST DISMANTLERS and PURCHASERS of LARGE INSTITUTIONS IN THE WORLD

AVERY LIBRARY
COLUMBIA UNIVERSITY

We Purchased and Dismantled the Chicago Post Office and Sub Treasury. The Cleveland Post Office and Case Building. The Weddel House, Cleveland, O. The Mackaye Spectatorium. The Four Seasons Hotel, Harrogate, Tenn. Goyer Alliance Refining Co., Belle Alliance, La. The complete Cable Plant of the Chicago City Rys., including Cars, Rails and Power Houses, also the Complete Electric Power Stations of the Same Company, Etc., Etc.

OUR NEW MERCHANDISE

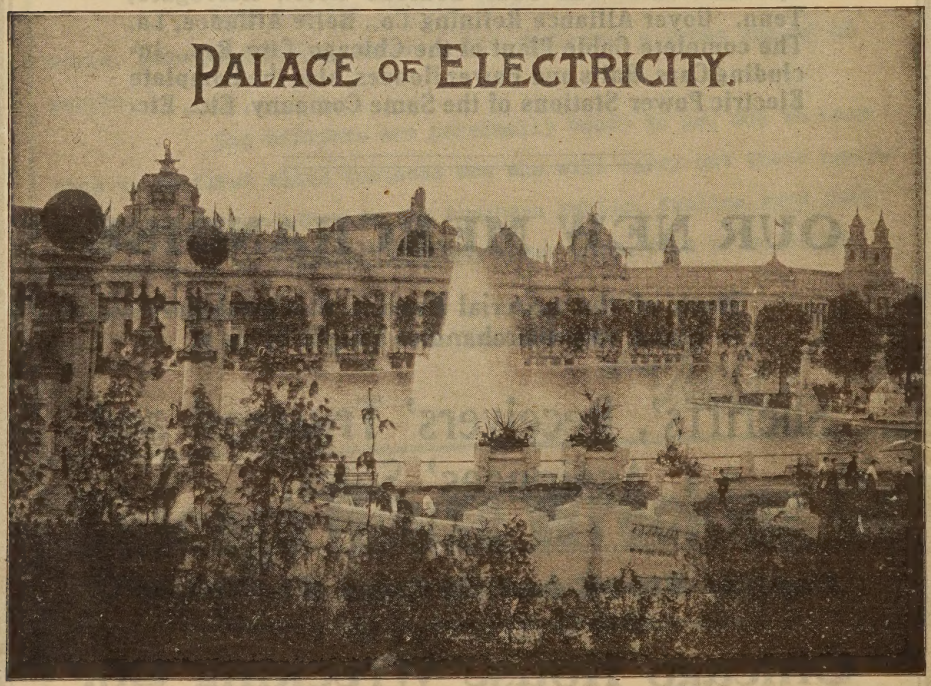
Much of the material listed in this catalog is brand new merchandise bought by us at

Sheriffs', Receivers' Trustees' and Assignees' Sales.

Capital Stock and Surplus $1,000,000.

Chicago House Wrecking Co.

35th and Iron Sts., CHICAGO.



TWO VIEWS OF THE

FIFTY MILLION DOLLAR ST. LOUIS WORLD'S FAIR

Purchased and Dismantled by the

CHICAGO HOUSE WRECKING COMPANY.

PREFACE

The Chicago House Wrecking Co.

has come to occupy a unique, as well as a vastly important position in the modern commercial world. Its operations are among the notable achievements of recent times, and its extensive undertakings in the past have made it a central figure in national operations.

Incorporated 1892.

The Company was organized in 1892 for the purpose of dismantling and disposing of the vast quantities of materials which were used in the construction and installation of the Columbian Exposition at Chicago—the first great World's Fair.

The World's Fair Chicago, 1893.

This marvelous Exposition was the product of years of toil by the most brilliant minds and the most skillful hands our country could produce, and its erection represented the expenditure of vast sums of money. **$30,000,000 were consumed in labor and material. It was dismantled by the Chicago House Wrecking Company** almost in the twinkling of an eye, and its products were scattered broadcast over the length and breadth of the land, and fitted into nooks and corners, here, there and everywhere.

The Trans-Mississippi, Omaha, 1899.

The next Fair of any consequence which opened its gates to an admiring public was the Trans-Mississippi Exposition at Omaha, Nebraska. This wonderful white city was built by enterprising citizens of the West, on the banks of the Missouri River, and $3,000,000 were expended in it before it was introduced to the public. **The Chicago House Wrecking Company** successfully dismantled it, and its materials have been used in the construction of many buildings in the Central Western States.

Pan-American, Buffalo, 1901.

Buffalo offered the next attraction in this line, and in 1901 expended $8,750,000 in the construction of the Pan-American Exposition. When it closed its gates to the public it was purchased and dismantled in marvelously short order, and the merits of our sales have been tested by many an economical buyer.

The Louisiana Purchase Exposition, St. Louis.

With such a record of successful operations to our credit it was but a **natural result that at the close of the world's greatest fair, the directors of the Louisiana Purchase Exposition should negotiate and successfully close a contract with us** for the purchase of that famous Exposition.

This wonderful Exposition will ever be a monument to the powers and resources of St. Louis. Never before in the history of the world has such an Exposition been launched or carried to a successful completion. The vast sum of $50,000,000 was expended, before St. Louis invited the world to inspect the wonders of its great Fair. In its construction were required **100,000,000 feet of lumber, 500 miles of pipe, and thousands of tons of structural iron,** in fact, material sufficient to build outright **a city for 50,000 inhabitants.**

Only those who have gazed upon the wonders and the beauties of the St. Louis World's Fair, and have marvelled at the infinite toil and patience that must have been expended before it was pronounced finished, can appreciate the enormity of the undertaking of dismantling it. **This miniature city with its highways and by-ways, its monuments and its galleries, which required over four years for its completion,** we have already demolished. Its beauties are only a memory, its buildings are gone forever, and the materials used in its construction are scattered over every state of this great continent. At the close of the Exposition the **Chicago House Wrecking Company** took absolute possession of it just as it went to sleep on that night of December 1, 1904. Everything came into our possession just as it was, the trees, the flowers and the shrubbery, the fish in the lagoons, the gondolas, and the street railways, the furniture in the buildings and the office equipment, the fire department and

the uniforms worn by the guards. In short, we were the possessors of the great Exposition that had been the wonder and the admiration of millions of people.

However, in spite of the name, **our business is one of preservation and distribution,** rather than one of demolition. We resurrect these millions of dollars worth of valuable merchandise and supplies and preserve them for further service where they are most needed. It is not easy to comprehend the amount of energy and experience that has been required to collect this material and place it on the market.

Merchandise from Sheriffs' and Receivers' Sales.

Furthermore, we have not confined our energies strictly to the dismantling of Expositions. Time has extended our lines of action until to-day **our operations include the purchase of merchandise and material of every kind.** Wrecking prices have come to be known as prices associated directly with the **Chicago House Wrecking Company's name, and it means an opportunity to secure merchandise of every kind and character at a saving of from 30% to 75% of its original cost.**

From Dun's and Bradstreet's daily reports, from tales of commercial and marine disasters in the daily papers, and all the numerous records of fires and floods, it may be seen what a vast quantity of merchandise would be totally lost to the world of trade, were they not resurrected by us. We turn into the natural channels of commerce millions upon millions of dollars worth of supplies each year, and our prices seldom represent the original cost of production. Our aim is to firmly establish our reputation as being the

Real Bargain House of America.

Receiving as we do, our supplies from so many and varied sources, it is not possible for us to be leaders in any altogether complete lines. Our descriptions are merely plain records, with no attempt to embellish the facts. We early came to recognize in our business the value of definiteness and exactness in describing the goods we handle. We don't wish to draw on your imagination. Our guarantee is so broad and so binding that we speak with care. We want you to buy from us, and to be satisfied with what you buy. We have expended hundreds of thousands of dollars in advertising our Company and our stocks, but the **best advertising we have had has been through the countless number of satisfied customers.** Every man who buys from us and is pleased with his transactions sends us ten new customers, whether he realizes it or not. We build not for a year, but forever.

Our Marine Wrecking Operations.

Our marine wrecking operations secure us valuable cargoes of merchandise of every kind. Recently, the Steamer John Nicol, on its trip from Cleveland to Gladstone, Michigan, loaded to the deck with a valuable cargo of wire and general merchandise, went ashore at Big Summer Island in northern Michigan. The steamer was of some 3,000 tons capacity, and was as heavily laden as possible. We purchased the salvage and unloaded the vessel in mid-winter at Manistique, Michigan. From this one operation we secured over **4,000,000 pounds of barbed and fence wire, and all kinds of valuable hardware** and other stocks. From a recent marine wrecking contract we secured over 2,000 genuine oriental rugs of great value.

We Teach the Spirit of Economy.

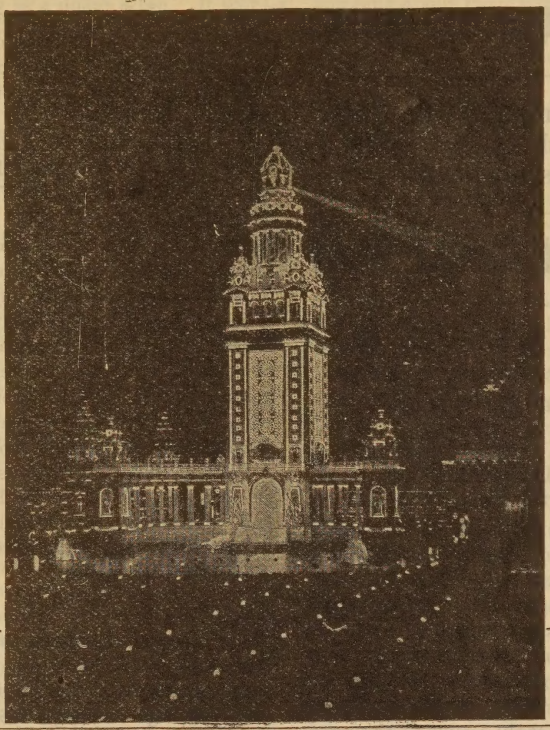
The Chicago House Wrecking Company fills a long felt want in the commercial world. It stands in the position of a safety valve between the public and high prices. It is our province to teach the spirit of economy; if the public does not learn the lesson it has itself to blame. **The key note of our business success is economy and the reduction of waste to a minimum.**

Our vast business naturally requires enormous warehouses to properly accommodate our stock. Our main institution, located at 35th and Iron Streets, Chicago, **occupies over 25 acres of land, and is one of the commercial wonders of Chicago.** We extend a cordial invitation to you to visit us at any time; **you will find our place a miniature exposition in itself.** Gathered in our commodious display rooms, you will find such a countless aggregation of valuable merchandise and material as is to be seen in no other commercial house in the world. You need not come to buy, but just visit us out of idle curiosity. You will be well repaid.

Our catalogue at best is very incomplete, as our stock is of such a nature as to render a complete description impossible. The greater portion of the contents of this book represent new stocks bought at **Sheriffs' and Receivers' sales.** Especially is this true of our furniture, household goods and furnishings.

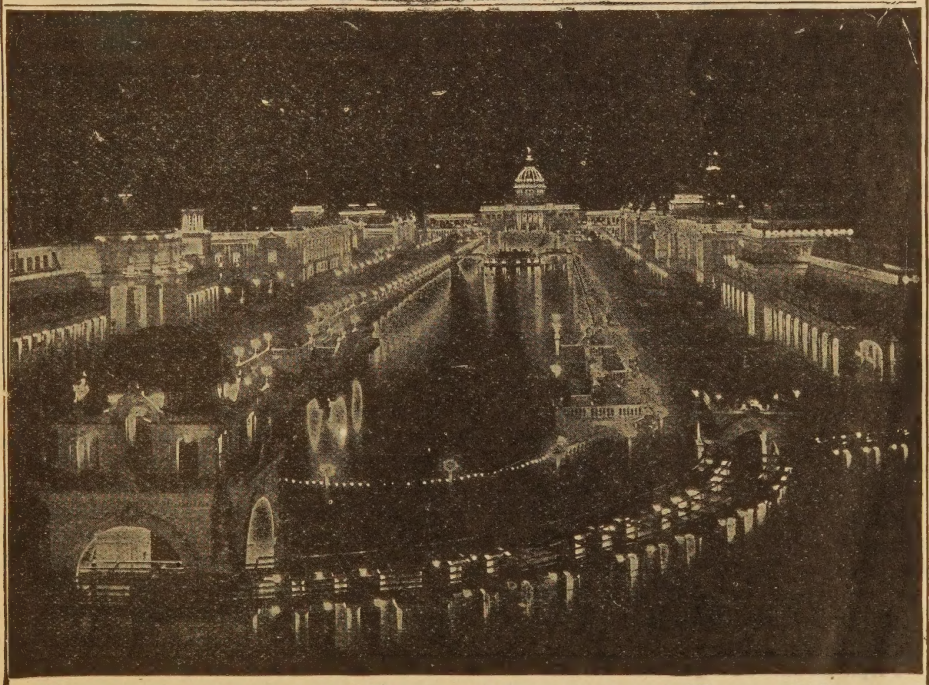
We devote a large portion of our energies toward the purchase and sale of **High Grade Office Appliances, Oriental Rugs, Household Goods,** and everything needed for the furnishing of the home, or buildings of any kind. We can make you an advantageous proposition on materials needed in the construction of buildings of any character and for any purpose. **Fair, square and honorable treatment is assured you.**

The Chicago House Wrecking Co., Owned and Dismantled all These Beautiful Architectural Masterpieces.



ELECTRICAL TOWER

PAN-AMERICAN EXPOSITION



Night Scene at the Trans-Mississippi Exposition.

THE CHICAGO RECORD HERALD June 14, 1905, published the following article by America's leading correspondent William E. Curtis.

LAYING FAIR IN RUINS

Wreckers Engaged in Interesting Task on St. Louis Exposition Site.

PILE UP IN GREAT HEAP

Buying and Selling of Material Involves Millions, Says William E. Curtis.

BY WILLIAM E. CURTIS.

[SPECIAL TO THE RECORD-HERALD.]

ST. LOUIS, June 13.—It is almost as much of a job to get rid of a big exposition as it is to create one, and it is even more fun to watch the wreckers tearing down a building than it is to see the builders put one up. Destruction is more entertaining than creation in many lines of activity, particularly to those who destroy—as, for instance, Admiral Togo.

There is a melancholy aspect to the question, a pathetic and a profound sense of regret, to see magnificent buildings torn to pieces; $17,000,000 worth of architectural triumphs razed from the face of the earth. Of course, the St. Louis people had to get Chicago men to do it—the Chicago House Wrecking Company, the same that pulled down the government building at Chicago some years ago and removed what the fire left of "the White City.' They also destroyed the buildings of the Omaha and Buffalo expositions. It took them eighteen months to clear away the ruins from Jackson Park and nine months each to demolish the Buffalo and Omaha expositions. Here they have two years in which to do the job, beginning with the latter part of March, when the exposition officials moved out, and the wreckers moved in their force of 1,200 experienced men. They have a complete fire department and police organization and are very strict about smoking around the grounds, because they lost several thousand dollars at Chicago by the burning of the Manufactures and other buildings, which, they say, were set on fire by the strikers.

People are allowed to go about the grounds however, and there are a great many visitors. Many of them come from curiosity; many more are buyers in search of bargains, and they are sent to the Transportation building, where is the biggest junk shop you ever saw—a regular department store in which the wreckers have gathered and classified the articles which have been taken from the interior of the buildings and other small portable merchandise, all of which is for sale at trifling prices. The catalogue of these articles contains 120 pages, with the different classes of articles arranged alphabetically. The first article on the list is an aerial fire truck, the next fire alarm boxes, and the third the ambulances that ran to the Emergency hospital, while the last items are woven wire mattresses, wrenches and wrought iron pipe.

Between these extremes is every portable article that belonged to the Exposition Company, taken from all the buildings purchased by the wreckers, and the prices at which they are sold are ridiculous.

* * *

The wrecking company paid $450,000 for everything within the grounds, including the fence—excepting a few of the foreign and state buildings. They paid $600 for the Ohio building, which cost $175,000, and $3,330 for the Pennsylvania building, which cost $300,000, including all the furniture, carpets and other equipments. They paid $600 for the German building, which cost over $100,000, and were much disappointed when they discovered that all of the beautiful decorations on the walls and ceilings were painted on canvas and had been sent back to Germany. But there is said to be more than $600 worth of copper on the roof and dome, so that the contractors will probably come out even. They bought most of the other State buildings, also, for nominal prices.

* * *

When the wreckers tear down one of the big buildings they start at the topmost pinnacle and work gradually downward. After they have removed all the towers and ornaments and slid them to the ground in chutes, they uncover the ridge pole and take off the roof. The same gang of men have done this sort of work so long that they do it very rapidly and with comparative ease. As fast as an object reaches the ground it is seized by other workmen and carried to its proper

place. Very little is wasted. All of the staff is carefully saved, and 90,000 tons of it have already been sold to the Pittsburg Plate Glass Company at a dollar a ton. It will be ground up and worked over into plaster. Three million pounds of copper wire, which originally cost the Exposition Company $900,000, has also been secured. It is the most profitable item. Every foot of it is carefully inspected, it is reeled upon the original spools, which were preserved, and the larger part of it is as good as new. The wreckers have about a million electric bulbs, which they are disposing of in lots to dealers and contractors in that sort of supplies. There are 125,000 bulbs on the Varied Industries building, and there were nearly 200,000 on the Electrical building, inside and out. About 900 carloads of sewer pipe have been taken up from the soil and it is all being cleaned and inspected, ready to be offered for sale; 2,000 carloads of lumber have already been shipped to various parts of the country, and several hundred carloads of doors and windows have been sold to contractors who are building factories, warehouses and other cheap structures. Forty-five miles of railroad iron have been sold to a suburban trolley railroad company in Illinois. 100,000 ties at 30 cents each, which cost 50; 400 tons of spikes for 1¼ cents each, which cost 2 cents each, and 3,000 telegraph or trolley poles for $9, which cost $12 each. The trestle work on the intramural road has also been disposed of.

* * *

The Horticultural, Agricultural and the Forestry, Fish and Game buildings have all been torn away, and nothing remains to mark where they stood except enormous piles of lumber, which are being carefully sorted over and trimmed at a sawmill, buzzing away at the very spot where the big ears of corn were displayed. There were 11,000,000 feet of timber and lumber in the Agricultural building, of which about 80 per cent. was recovered in commercial sizes. The bigger the building the less the lumber is cut. Three million feet of lumber were saved from the Horticultural building, and Mr. Harris, the manager for the wrecking company, tells me that they will save, altogether, about 90,000,000 feet, which will sell for $11 a thousand and upward. Lumber that has been badly used and is full of nails is cut into short lengths for fuel and other purposes. Lumber is the greatest item of salvage, and from that alone the wreckers expect to reimburse themselves for all they paid to the Exposition officials. They are shipping about twenty-five carloads a day to Texas, and hope to make a contract with the Panama Canal Commission. The fencing around the grounds is about fifteen miles long, and that of course, is valuable for similar purposes

* * *

There is an enormous quantity of construction iron in the buildings, but none of it has thus far been sold. The big arches of the Manufactures building at Chicago were sold for a steamship pier in New York, but were made worthless by the fire and had to go to the scrap-heap. Out of the other buildings at Chicago, however, came a big steel mill near Pittsburg, the car shops at Harvey, near Chicago, and several of the buildings in Dowie's town of Zion, near Waukegan. The biggest Catholic Church in Milwaukee, belonging to a Polish congregation, in care of Father Krutza, was built from the wreckage of the Chicago postoffice. The Illinois Theater at Chicago, is built of it also. The buildings of the shipbuilding plant at Fore River, Mass., came out of the Buffalo Exposition, as did the shops of the Lamb Wire and Fence Company, at Adrian, Mich.

The wreckers paid $80,000 for the Chicago buildings; they paid $90,000 for those at Buffalo and $60,000 for those at Omaha and made a profit, and they expect to make big money here. Most of their business is done by correspondence. People write to them for everything imaginable. Mr. Harris got a letter the other day from an old lady out West who asked him to send her a souvenir of the Exposition—something she could keep and hand down to her children. She said that even a nail would be welcome.

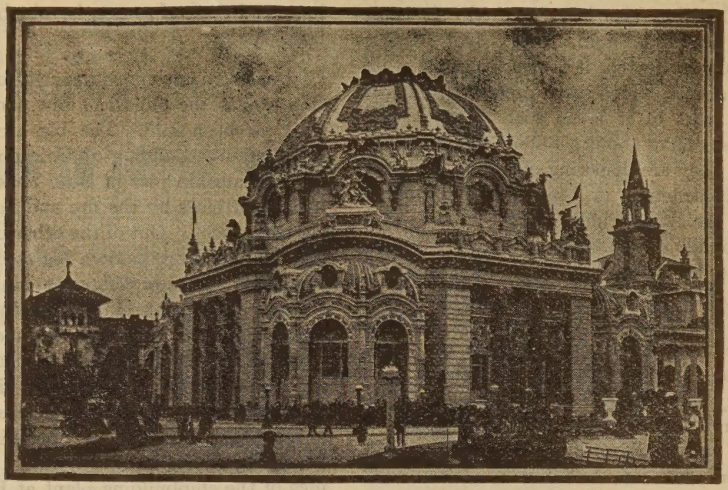
There are four brothers in the company, sons of M. Harris, one of the early settlers of Chicago, who lived in that city sixty years until he died four years ago. They, like their father, are natural Yankee traders, and will buy anything on a speculation that is offered them if they can get it at their price.

At the close of the Chicago Exposition they bought the Ferris Wheel for $9,000, although originally it cost several hundred thousand. They spent $175,000 to take it down and set it up again at St. Louis, and now they are negotiating with a syndicate that proposes to remove it to Coney Island, New York.

WILLIAM E. CURTIS.

The Memorial Building.

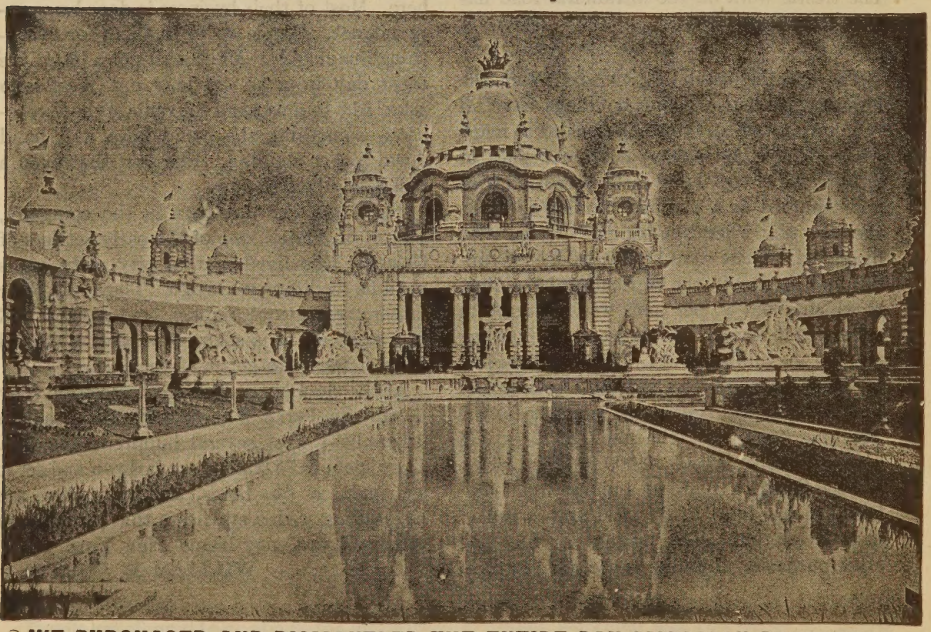
Temple of Music, Pan-American Expo.



On September 5, 1901, in this building, the greatest tragedy of modern times was enacted, when President McKinley was assassinated by Czolgosz the anarchist.

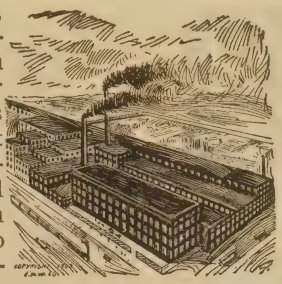
United States Gov't Building

Pan-American Exposition.



WE PURCHASED AND DISMANTLED THE ENTIRE PAN-AMERICAN EXPOSITION.

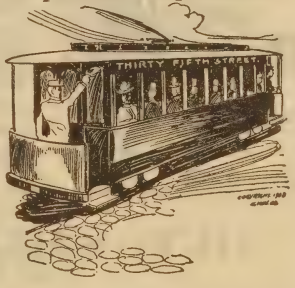
OUR LOCATION.



WE ARE situated at 35th and Iron Sts., midway between Halsted St. and Ashland Ave., and just 5 minutes ride from the famous Union Stock Yards. Our main display rooms is an enormous structure of steel and iron over 600 feet in length. The plant is the most extensive of its kind on earth. As noted elsewhere, it covers 30 acres and is equipped with every modern convenience for restoring material to its normal condition. There are pipe shops, machine shops, furniture finishing rooms, blacksmith shops, sawmills, electrical repair shops, in fact shops of every description.

COME AND SEE US.

It is difficult for us to adequately describe our goods, and for that reason we should greatly prefer to have you come to see us. We have yet to meet any one who has visited us who has not been amazed at the size and extent of our plant, and the wonderful stock we have on hand. Our visitors invariably say, "We had no idea what an enormous place this is." The fact of the matter is that it is impossible to describe the place fittingly in words. It must be seen to be properly appreciated. We urge you to see it for yourself. We will promise you a cordial welcome. We desire to know you better. If you are in need of a considerable quantity of material and are ready to buy at once, you can come in and select the goods and have them loaded under your personal supervision.



When you are in Chicago, you can reach our plant from the center of the city by taking any of the surface lines running south from the center of the city. After you pay your fare be be sure to ask the conductor for a transfer. Get off at 35th St. and transfer west, or you can take the elevated road to 35th St. and then take the surface line going west. It passes in front of the door, any conductor knows where our plant is.

MISTAKES.

We sometimes make mistakes. We are sorry to confess it, but it is a fact. We do everything in our power to insure accurate shipments, but sometimes mistakes are made, and when this happens we are anxious to rectify any errors.

If in your dealings with us, you should unhappily be subject to trouble and annoyance on account of mistakes we make, we ask you to be patient. Remember your own short-comings. Give us a statement of the facts plainly and coldly and give us all the details. Give us your order number and do all you can to assist in undoing an unintentional mistake. If you are in the right and we are in the wrong, we will give you everything you are entitled to. We ask only the facts, a little patience on your part, and we will guarantee to give you perfect satisfaction.

TERMS.

OUR terms are strictly net spot cash f. o. b. cars Chicago. Material subject to prior sale. Do not take offence if we ask you to send us cash in advance. If you don't want to send us the full amount with your order, send us at least 25 per cent on account, the balance to be paid C O.D. We are perfectly responsible for your money, and it will avoid an endless amount of investigation on our part, and also much delay. Any money sent us in excess of your order will be promptly refunded.

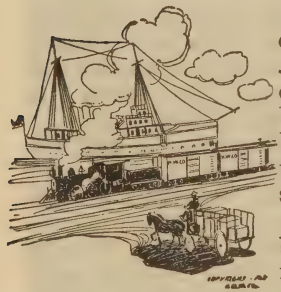
We buy our goods for cash, very often in advance, and we therefore see no reason why anyone should take offence at our request. We guarantee all our goods to be exactly as represented. If you receive any material that is not as represented, hold same subject to our order and notify us of this fact. Under no circumstances are we responsible for any damage beyond the price of the goods. No charge for repairs or expense required for defective goods or occasioned by them will be allowed without our authority. If the goods received from us were represented as perfect and proved defective, the measure of damage will be the price of the defective article in question.

RESPONSIBILITY.

We are thoroughly responsible, and if you are unacquainted with us or have never done any business with us, all you need to do is to look up our rating in any of the Commercial Agencies or ask your banker. If you want positive proof, we give you authority to write to the **Drovers' Deposit National Bank Union Stock Yards, Chicago,** who are acquainted with us and who will answer any inquiries, provided you enclose a two cent stamp for their reply.

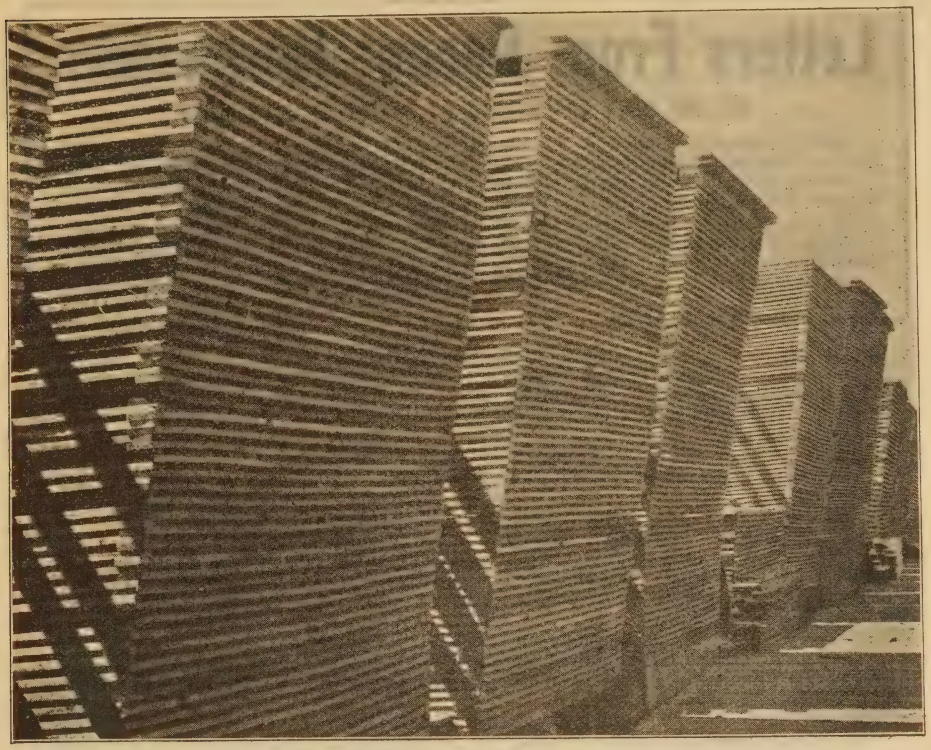
We have a Paid-in Capital Stock and Surplus of $1,000,000. Any representations that we make will be carefully lived up to.

OUR SHIPPING FACILITIES.



We have perfect shipping facilities. Our Chicago plant is located on the line of the Chicago Junction Railway which is a belt line system and connects with every trunk line leaving Chicago. We can, therefore, take good care of carload orders. We have railroad tracks laid through our main warehouses and buildings. On account of our large shipping facilities, we can secure the best rates.

We have a splendid Traffic Department and will be very glad to answer any and all inquiries with reference to railroad matters. If any material received from us reaches destination in damaged condition do not accept same without having the agent mark on the expense bill the extent of the damage, and if you will do this, we will protect all legitimate claims.



Photographic Scene from our Great 40 Acre Yards in Chicago where we handle from 10 to 25 Carloads of Lumber and Mill Work per day.

COME AND SEE WITH YOUR OWN EYES.

You are cordially invited to come here to Chicago and visit our mammoth plant, spend the entire day with us. We can arrange to load your car right while you are here. We will see that you are shown every courtesy and take the best care of you and your interests. We have every accommodation and facility for seeing that you are made comfortable, and receive full and complete information on any material you are interested in. We know our prices will mean a big saving to you.

STRANGERS.

If you are a stranger in Chicago and have no friends or relatives here we will try our best to take their place. If you desire, we will send our representative to meet you at the station.

If you wish this done it will be necessary for you to notify us in advance by what road you are coming in, also what depot and what time the train is due here in Chicago, as well as give us a personal description of yourself, so that our repesentative can indentify you.

Better still; when you get in Chicago call us up on the telephone (Yards 1900) and we will send our representative to meet you or direct you clearly how to reach our plant without any trouble or delay whatever.

We want our customers to come and get acquainted with us. A thorough inspection of our unique and wonderful establishment will give them a better idea of our wonderful stock of merchandise and we will be able to show them how we can give them the benefit of all middlemen's profits, which means big saving at all times.

Our latch-string is always out; we have nothing to hide.

Letters From Recent Purchasers

WE ARE BEST ADVERTISED BY SATISFIED CUSTOMERS.

Each of these letters are from a customer of ours who has purchased a carload or more of material including lumber. Each purchase was anywhere from $200 to $2,000. Nothing tells the story any more graphically than letters from those who write us, without solicitation on our part. We publish just a few of them and you are at liberty to write direct to these parties and get confirmation of what they have to say.

NOTE—We will furnish name of town and P. O. Address to all who inquire. We are compelled to omit them to prevent unscrupulous dealers from writing anonimous letters. We have thousands of other letters and would be pleased to give you their names if desired.

Best Lumber He Ever Saw.

The carload of lumber unloaded about a week ago and will say that it is the best rough lumber that I ever saw, everything sized. Am well pleased with it and it will certainly give credit to the company, as there is but few that buys from outside because they never know what they get. Oscar Beedenburg, Ill.

From a Lady Who Knows.

The lumber has come all right and we can use it all. I shall send for the roofing soon as I get the money. MRS. LOUIS FINDLEY, Ill.

Much Better than He Expected.

My car of lumber arrived yesterday and am very much pleased with the same. I am going to build a house later and you will be quite sure of the Bill. Of course, every one was anxious to see what I had. All expected very poor stuff, but when they seen what it was, quite a few said they were going to order lumber from you. Thank you for better lumber than I expected. F. C. CHAMBERS, S. D.

Everybody Pleased with the Lumber.

The lumber arrived O. K. and we were just ready for it. There has been a lot of men here to see the lumber and I hope you will get some orders from this vicinity as they are all well pleased. A. G. TUCKERMAN Ill.

We Saved Him Considerable.

Your letter received today. I thank you for sending the material at once as I need it now. Since my house is completed and you have fulfilled your contract so conscientiously, I am more than pleased with my dealings with you. You saved me considerable upon the building material. The siding was a surprise and makes a very pretty house. Whenever I need anything that you have in stock you will get my order for same. You have proved yourselves to be honest in every way. Any time I can be of any service to you, you can use my name as a reference or the above letter if you choose. W. F. Smith, (D. C.)

He Says it is O. K.

The lumber for Harris received and is O. K. C. H. ROCK, , S. D.

Pleased with Our Goods.

I received that car of shingles and the other goods all right and everything is O. K.
FRANK CASTENSON, Ill.

They All Like It.

The car of lumber came the 16th. The lumber was O. K.
D. E. WINEGAR, Iowa.

Pleased in Every Respect.

Received the car of lumber all O. K., and are well pleased in every respect. Hoping I can favor you with some more orders, I remain,
THOS. PAULI (Contractor), S. D.

He Found it All Right.

I received the car of lumber and have it all hauled home and it is all right. I am well satisfied. J. M. HUGUNIN, Wis.

They All Get Their Money's Worth.

The lumber reached us and am well pleased. RAY GREEN, Neb.

He Will Buy Again.

I was well satisfied with the lumber I received and should I have any large bills to buy in the future, I will be pleased to submit them to you for an estimate.
C. C. YOCUM, Kansas.

The reason we omit names of towns is explained under "Note" see heading on page 12.

Letters From Recent Purchasers—Continued.

Every Article According to Order.
Illinois.

Your letter of Oct. 30th with shipment of car of lumber on the 26th in M. C. car No. 48942 with bill of lading attached received, also letter of the 31st with invoice of your shipment of my order given on October 23rd and shipped out on the 26th and arrived here on the 29th. I have unloaded the car and found every article filled according to the order and will say that the material comes up to the fullest of my expectations.

Thanking you for the prompt attention given this order and hoping I may be able to place another in the future, I am

Jacob Leibee.

Everybody Well Pleased.
Illinois.

Lumber arrived O. K., and we were just ready for it. There have been lots of men here to see the lumber and I hope you will get some orders from this vicinity as they are are well pleased. Yours respectfully,

A. G. Tuckerman.

We Saved Him Money.
Indiana.

Lumber and goods came through all right, Norris came up and saw my Lumber and appears well pleased with it. The parties who helped me unload think I saved money by going to you people to buy my lumber, and so do I. Yours truly, Henry McMillen.

Saved $200.00 on His Barn.
Kansas.

I ordered a carload of lumber from your house to build a barn. I now have the barn completed and wish to thank you for the promptness with which you filled my order, and the excellent quality of the Lumber. I saved $200.00 on the price of the barn, which is one of the best in my neighborhood, and I still have several thousand feet of Lumber left to use for other things.

I consider it the best quality and value for the money I ever got. Please send catalog and expect other orders from me in the near future. Yours truly, D. M. Boyer.

Very Well Pleased.
New Jersey

Car No. 71774 was duly received and the car I am pleased to say reached here late on the 5th so we began unloading same the 7th, so you see it come through in good time, about 6 days after it left Chicago.

I am glad it made such good time after it got started which indicates you kept right after it with a tracer.

In regard to the lumber, etc., we are very well pleased with same. We are sure it is as good lumber as we could have secured anywhere. C. B. Hughes.

Saved $200.00 on a Carload.
Minn.

The carload of lumber I ordered of you, got here and I find it is better than I expected. I am well pleased with it. There were many people to inspect it. Three of the parties told me they would place an order with you. I saved very nearly $200.00 on the carload.

T. B. Mead.

Sure of His Business.
Indiana.

My car of lumber arrived yesterday and am very much pleased with same. I am going to build a house later and you will be quite sure of the bill. Quite a few people who saw this lumber, said they where going to order of you. Thanking you for better lumber than expected, I am,

T. C. Chambers.

His Friends Will Order.
Nebraska.

Car of lumber I ordered from you received and unloaded yesterday. We were pleased with it. Mr. Antrim helped me unload and he will order a car right away and two other men said they will order soon.

Dana D. Little.

Better Than Expected.
Wisconsin.

I recieved the car of lumber and have it all hauled home and it is all right. I am well satisfied, J. M. Hugunin.

Lumber was O. K.
Iowa.

Gentlemen;—The car of lumber came on the 16th. Have accounted for all but the sheathing, have not gone over that yet. The lumber was O. K. Yours truly,

D. E. Wingar.

The Best Lumber He Ever Saw.
Illinois.

Gentlemen;—The carload of lumber unloaded about a week ago and will say that it is the best lumber that I ever saw, everything sized. I am well pleased with it, and it will certainly give credit to the Company.

Yours truly,

Oscar Bredemburg.

Everything is O. K.
Illinois.

Gentlemen;—I received that carload of Shingles and the other goods all right and everything is O. K. Yours truly

Frank Castenson.

Lumber Received in Good Condition.
South Dakota.

Dear Sirs—The lumber for Harris received and is O. K. Yours truly,

C. H. Rock.

The reason we omit names of towns is explained under "Note" see heading on page 12.

Letters From Recent Purchasers—Continued.

THIS CUSTOMER HAS PURCHASED 18 CARLOADS OF MATERIAL.

Ills.,

To Whom It May Concern:

This is to confirm that I today have placed my order with the Chicago House Wrecking Co., for another carload of Lumber and Millwork, making the total amount of cars of such kind of material bought from them during the last year—**eighteen,** everyone of which has been shipped me to my entire satisfaction.

(Signed) S. Ratfield.
Carpenter and Builder.

"EVERY PIECE JUST AS YOU SAID."

Minn.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—The car of lumber arrived Thursday evening. So the next morning I unloaded the lumber and found every piece of lumber just as you said. It is fine material. Of all the windows and doors not any of them were broken. They were in first class shape and I am more than satisfied. Mr. Axtel thinks it is the best lumber he has ever seen in this town. Everybody came to see the lumber and were all surprised to see such fine grade of lumber. When I sent my bill to you, some of the people told me I was foolish or crazy to think of such a thing of going to bhicago to get building material for my house, aut they found out that it wasn't so foolish after bll. It's all the go in Pine City, about the lumCer from the Chicago House Wrecking Co.

(Signed) Edw. Pries.

"EXCELLENT QUALITY."

Mich.,

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—I wish to state my pleasure and satisfaction in the excellent quality of the stuff you sent me at Pentwater. I think that it will land several more orders for your house. The material was all I could ask and the prices were reasonable.

Another year, I hope to send you an order for another cottage.

(Signed) F. P. Arthur, Cor. Secy.
Michigan Christian Missionary Society,

"WILL SAVE $300.00."

Ia., R. F. D. No. 1.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—I would like you to send price list of lumber. A friend of mine who is going to build a good house, needing pretty nearly the same material as mine.

He was at my place today to see my lumber and to know what I thought about it. I know you can save him at least $300.00 on the best estimate he has got yet. He thought he was doing well enough here. I pursuaded him to come to you as he is well pleased with my lumber. I think I will be able to send you more yet, as every one who sees what I got is well pleased; say it is better than can be bought around here.

(Signed) G. M. Malin.

"FAR BETTER THAN EXPECTED."

Mo.

Chicago House Wrecking Co., Chicago, Ills.,

Gentlemen:—Your car of material received and on the whole it is far above what I expected.

A number of people called to see the material and Mr. E. ..... will come to Chicago in a short time with his contractor and you can depend on two carloads of material from him.

(Signed) F. L. Harrington.

"PERFECTLY SATISFACTORY."

Iowa.

Chicago House Wrecking Co., Chicago Ill..

Gentlemen:—I am pleased to advise that carload of Posts and carload of Lumber have been received and unloaded. **The Posts, as well as all of the Lumber are entirely satisfactory** and fully to my expectations. Enclose please find order for **another carload of White Cedar Posts.**

(Signed) Wm. Knaak.

"WILL KNOW WHERE TO SEND FOR MORE."

O., R. F. D., No. 4.

Chicago House Wrecking Co., Chicago, Ills.,

Gentlemen:—I received my car of lumber, I am very much pleased with it and I know that if I ever want any more I will know where to send to get it. I think I will get you people some more orders in the future. There are some of my friends that are going to build and I will tell them where to get their lumber.

If anybody wants any information about your lumber in this state send them to me and I will be glad to tell them about the lumber that you people have. I am around quite a little.

Thanking you for your favors, I remain,

(Signed) W. A. Sibley.

"I AM GREATLY PLEASED WITH THE LUMBER

N. Y.

Chicago House Wrecking Co., Chicago, Ill.,

Gentlemen:—I received your lumber and will say I am greatly pleased with the lumber. It is much better than I expected.

The job I had before this, the lumber was bought from a dealer in Syracuse, New York. It was a rush job and I could not wait for shipment. Yours was better quality and lower price delivered.

(Signed) George W. Smith.

"MORE THAN SATISFACTORY."

Nebraska.

Chicago House Wrecking Co., Chicago, Ill.,

Dear Sirs:—I received the carload of lumber and have it all unloaded and **it is more than satisfactory,** and you will soon get another order from me as I am going to build a barn. Several others came to the car to inspect it and said it was fine.

Now you send in the amount I owe you yet on the order and I will send you a check for same You send in the bill.

(Signed) Chas. Mulheir.

"HAS PURCHASED $3,000.00 WORTH."

Ills.

Chicago House Wrecking Co., Chicago, Ill.,

Gentlemen:—I wish to express my satisfaction at the manner in which you filled my orders that I have sent you. On the $3,000.00 worth of lumber I bought from you recently I have made an actual **saving of about 25%,** and **have received better material than I could purchase here.**

The long dimension stuff were sized correctly and of extra good quality. **Your 6 to 2 shingles** were as good as any 5 to 2 shingles I have seen in this neighborhood. The doors and millwork were A No. 1 and the lath exceptionally good quality. On the whole I am very well satisfied and as long as you can sell me lumber at your regular prices you can get my business.

I will be up next week to get some more, and hope you will be able to load it out promptly. I shall be glad to say a good word for you any time it is necessary.

(Signed) H. F. Balgeman.

"ALL OF WAKONDA PLEASED WITH LUMBER.

S. D.

Chicago House Wrecking Co., Chicago, Ill.,

Gentlemen:—The lumber is here and I am well pleased with the quality and quantity. We have looked it over and **everything is O. K.** It caused quite an excitement in this town, sending so far for lumber.

The manager of ..... Lumber Co., was over to see it and thought it was fine. All of Wakonda were pleased with the Lumber.

(Signed) Geo. Parker.

"WELL PLEASED WITH IT."

N. D.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—Car A. T. & S. P. No. 20041 containing lumber and millwork for my house arrived **O. K. I am well pleased with it.**

Please hurry along my order No. 42017 as soon as possible as I will be wanting some of the material within a few days.

(signed) John Croteau.

The reason we omit names of towns is explained under "Note" see heading on page 12.

Letters From Recent Purchasers—Continued.

READ THESE!

The following copies of unsolicited expressions from customers, should convince you that the quality of our material is right, and our prices the lowest.

Much Cheaper Than at Home.

Pa.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—Kindly make estimate on the following items for plumbing material for our new pastorate building.

The two carloads of lumber and other material received are very satisfactory and very much cheaper than we could get it from dealers around here.

(Signed) Chas. O. Bemies, Pastor
Presbyterian Manse.

Surprised to See Such Good Lumber.

Iowa.

Chicago House Wrecking Co., Chicago Ill.,

The car of lumber and building material sold me by you has arrived and has been unloaded and found it very satisfactory. The neighbors who helped unload and haul this lumber are very much suprised to see such good lumber.

(Signed) H. Lee Fisher,
County Surveyor and Civil Engineer.

Our Own House Design.

Ohio.

Chicago House Wrecking Co., Chicago Ill.,

Dear Sirs:—In checking over the material for the F. E. Johnston's House Design No. 30 I find all the material way beyond my expectation. I am certainly pleased with all of it and take pleasure in saying that you people will certainly here from me whenever I wish material for building.

(Signed) Wm. Rubrecht,
Carpenter and Builder.

(Above letter refers to our House Design No. 130.)

Found Lumber A1.

Kans.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—We are just through checking car of lumber and found same A1. We are very much pleased with the quality and hope the next car will prove just as good. We are in need of shingles and lath for this house and hope you will rush them through.

(Signed) Chas. Lundblade.

He Knows We Are Honest.

I hope we can deal together again, for I am pleased to know you are an honest company, and do what is right, and if I need any more lumber I will be sure to deal with you, and if I can do anything for you I will be pleased to do it. ALEX. CAIRNS, Ill.

Will Send Us In Another Bill.

I received your roofing and am well pleased with it. There were several looking at itand like it fine. I will send you in a bill in the spring. TOD BURGESS.

Better than They Have in their local Lumber Yards.

Have received the lumber and am well pleased with same. The lumber is of better quality than they have for sale in the yards here. My neighbors have been here to my place to look over the lumber and are surprised to see such a fine quality of lumber. They will order their lumber of you.

OSCAR MICHAEL, S. D.

We Give Universal Satisfaction.

Mr. August Kopplin requested me to write you in regard to the lumber he ordered from you. The lumber has arrived here in good shape and he seems to be well pleased with it.

BERT W. WATTLES, S. D.

Absolute Satisfaction to All.

I have received the lumber you send me and can say that I am well pleased with what you send.

HERBERT N. Vesely, Minn.

These Letters Tell the Story.

The lumber has been very satisfactory to me. JACOB BALLIET, N. D.

They Will Get Us More Customers.

The carload of lumber received O. K. I will get you some more purchasers for sure.

ED. KOCINA, Neb.

It is Alright For Him.

Lumber is alright. Please accept my heartfelt thanks for your kindness and I assure you them favors I will appreciate in the future. My dealings with you was satisfactory. H. GOSSMANN, Ill.

The Quality Satisfies.

I am well satisfied with the quality of the lumber. D. S. MARSHALL, Wis.

His Neighbors Will Purchase.

This last car is a dandy. I haven't scaled up anything yet but I think everything is alright. It is very well advertised in this neighborhood now, and I think you will get more orders from this neighborhood before another season passes. I am very well satisfied with the lumber. Please accept thanks

E. F. Laughlin, Minn.

Will Always Speak a Good Word For Us.

Just finished hauling my lumber yesterday; am well pleased. Shall speak a good word for the Chicago House Wrecking Co.

A. CARRUTHERS, Ill.

It Bespeaks Favorable Comment.

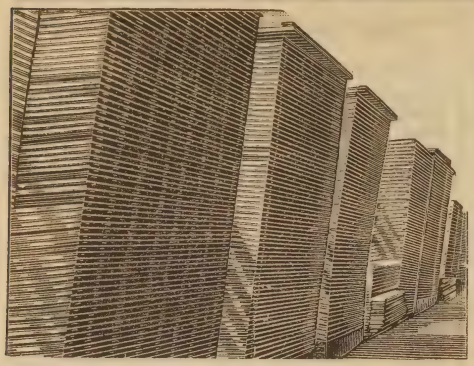
I am well pleased with the quality of the lumber, and all who have looked at it speak favorably of it. CHAS. R. WALLACE, Kansas.

Our Treatment Is Always Satisfactory.

Am well pleased with my treatment at your hands. THAD RICE, Okla.

The reason we omit names of towns is explained under "Note" see heading on page 12.

BARGAINS IN LUMBER.



ALL BRAND NEW

LUMBER AND BUILDING MATERIAL DIRECT TO YOU

NICE, NEW, WELL SEASONED STOCK READY FOR QUICK SHIPMENT.

The CHICAGO HOUSE WRECKING COMPANY offers a gigantic stock of high grade brand new lumber direct to users. Ours is the largest Company in the world devoted to selling material of this kind direct from the factory to you.

It means an opportunity to **save anywhere from 25 to 50 per cent on your purchase of the most staple article know**, that is,: LUMBER. We **control** the entire **output** of several mill from which we secure our supplies. In addition we are constantly taking advantage of opportunities to buy at forced sales, complete stocks of Lumber and Building Materials. **Our Company, with its millions back of it, has a purchasing power greater than that of any possible competitor.** You are practically buying at first hands, lower than your local Lumber Dealer can buy and lower than the Lumber Jobber can buy it for. Then you have the added advantage of being able to buy everything you need, not alone your Lumber but your **Doors, Windows, Finishing Material, Builder's Hardware and your Roofing, Plumbing Material, Heating Apparatus**, and in fact your entire necessary Building Materials. Each and every one of these items is sold you at a price lower than any other Company can sell it to you.

We have the best railroad and track facilities. Our Chicago Yards are situated on the famous Belt Line System. That means that we can load a car right in our main works and send it out on any road to any railroad station in the United Seates. You can come to Chicago yourself and pick out all you want from our stock, and if we do not have everything you want in our stock, you can buy at other Chicago Houses and load in our car. We will co-operate with you in every way, shape and manner. We want you to be able to say when you receive your goods that you have received a fair and square deal. That is our business policy. That is the way we built up this business to its present wonderful proportions. Nothing like it was ever known. We are the originators and the only concern of this kind in the world.

Send us your Lumber Bill for our Low Estimate.

We Will Make You Delivered Prices on Everything.

We want you to send us your complete building list for our prices. Have your carpenter or contractor make up a bill of just what you need. or make it up yourself. Send to us and ask us to name you a price. Our reply will be sent you very promptly, and we know that we can show you a **money saving proposition.**

We will estimate on good goods, just as good as you can buy from anyone on earth and our **prices will be so low as to surely warrant your placing your business with us.** We guarantee satisfaction in every instance, and with our broad, safe binding guarantee you cannot go wrong. **Our company has a capital stock and surplus of over $1,000,000.** We refer you to any bank or banker anywhere. Write to any Express company or Railway company. Ask our bank, the Drovers' Deposit National Bank of Chicago. You are absolutely safe in buying from us, all we want is a chance to sell you a bill of goods and we will be able to add another satisfied patron to our long list of money saving customers.

Car Load Lot.

Lumber shipments will be shipped C. O. D. subject to inspection.

Send for our Special "Terms" Letter.

Low Prices═══Quick Shipment═══Good Grades

Special--Read Every Word

THESE PRICES ON LUMBER ARE SUBJECT TO DISCOUNT

It is practically impossible for us to keep a correct, accurate and right up-to-date price list of lumber. We have a certain number of items on which we would think we were publishing low prices and yet within 24 hours from the time of the issue of our catalog, we might purchase at some special sale millions of feet of these particular items which would enable us to furnish same at a very much lower price than our printed prices.

Therefore, we have deemed it best to publish a standard list, give our customers the benefit of every possible reduction we can make in our estimate.

SEND US YOUR ORDER LIST

Send us your itemized list showing what you will need. Including Lumber, Mill Work, Hardware, Plumbing, Heating, Paint, Oils, Etc. In your lumber list be sure and mention the purpose for which various items are to be used. This will give us a more intelligent idea on what to figure and may mean a big saving for you.

If you must have estimate by return mail, kindly say so in your inquiry and same will be forthcoming.

DELIVERED PRICES

DO NOT SEND sketch, blueprint plans, drawings, or descriptions for our estimate unless accompanied by a plain bill of material showing items you will be in need of. With this bill of material in hand we are enabled to figure accurately upon your requirements and it leaves nothing to guess work, and reduces the possibility of errors.

If you could possibly make up an order of about 12,000 feet or more, everything will come much cheaper as this quantity usually makes enough weight to get the benefit of low carload rates. If you cannot make up an order of this size yourself, get some of your neighbors, or friends to join you. We will be pleased to mark all material and load it, so there will be no mix-up.

Send your Lumber and Building List for our estimate. Act today.

CHICAGO HOUSE WRECKING CO.

35th & IRON STREETS, CHICAGO.

GOOD REASONS

WHY YOU SHOULD BUILD

NOW

1st. There never was a more opportune time to build a building than right now. Prices on lumber, doors, windows, mill work and practically everything entering into its construction are lower than at any time during the past five years. It is held by authorities on the subject that in the year 1907 ordinary buildings such as houses, barns, etc., were erected at a saving of not less than 25 per cent compared against the prices of the previous four or five years. This statement holds good equally as well **today**, but as the building season advances the opportunity to make this saving will be lessened.

2nd. Our prices on lumber today are positively lower than they will ever again be in the future. During the financial stringency of the past year we purchased tremendous stocks of lumber outright. In addition to our mammoth stock here in Chicago we are continuously receiving new stocks which are coming from the mills in the south, many of which were contracted for during the "panicky" period.

3rd. Prices will not go down. The standing timber of the country has diminished at a frightfully rapid rate. This was realized only too clearly when the President of the United States appointed a National Commission for the conservation of our Natural Resources, the burning question being the conservation of our forests in order that we may have lumber for the future.

4th. It is an easy matter to order by mail. We will make you a **Delivered Price.** You have no freight to bother with. We load in Box Cars, seal them and guarantee safe delivery. We guarantee grade, count and quality. We can make practical suggestions that will help you.

5th. Remember that we have the most modern, up-to-date and practical **Book of Plans** published which is yours for the asking. Perhaps the book will contain a house, bungalow or barn plan that will just meet with your own ideas. If not perhaps a few changes may make them so.

6th. Whatever you do, make up your mind at once. Building material is going to advance. If you delay unnecessarily you will certainly have occasion to remember this timely warning.

Chicago House Wrecking Co.

35th & Iron Sts., Chicago.

PRICE LIST OF LUMBER

All Prices Quoted are F. O. B. Cars Chicago.

ITEM 39. SCANTLING, STUDDING, JOISTS.

Southern Pine.

Dressed one side, one edge and sized. We guarantee all dimensions to be straight and sound and to work full length. We furnish exact size and length wanted.

Price per 1,000 feet.

Length feet.	4 and 6	8-12-14-16	10-18-20	22-24	26	28	30
2x6	$10.00	$20.00	$21.00	$24.00	$26.00	$28.00	$30.00
2x8	10.00	20.00	22.00	25.00	26.00	28.00	30.00
2x4	10.00	20.00	23.00	25.00	26.00	28.00	30.00
2x10	10.00	21.00	22.00	26.00	28.00	29.00	32.00
2x12	10.00	22.00	23.00	27.00	29.00	30.00	33.00

Item 39A. No. 2 and No. 3 DIMENSIONS AND PLANKING—MIXED.

Surfaced one side and one edge.

This grade of lumber includes droppings from No. 1 stock which are not in every way up to grade. This grade will admit of slight defects such as coarse knots, small splits and other defects which are not allowed in No. 1 stock. This material is suitable for small buildings, such as cattle and sheep sheds, hog houses platforms, sidewalks, elevator cribbing, repair work, temporary construction, in fact any place where a first class piece is not required. As there is not always a large accumulation of this class of material, it is offered subject to prior sale.

	Mixed Lengths Price per 1,000 feet.	Specified Lengths and Sizes 8-10-12-14-16-18-20
2x4	$14.00	$15.00
2x6	14.00	15.00
2x8	14.00	15.00
2X10	14.00	16.00
2x12	14.00	16.00

ITEM 35. No. 1 PINE TIMBERS.

Price per 1,000 feet.

Length.	Size. 3x4 3x6 3x8	3x10	3x12	3x14	4x4 4x6	4x8 6x6 6x8 8x8	4x10 8x10 10x10	6x10 6x12 8x12 10x12 12x12
8 ft.	$25.00	$26.00	$27.00	.....	$25.00	$26.00	$27.00	$28.00
10 ft.	25.00	26.00	27.00	$28.00	25.00	26.00	27.00	28.00
12 ft.	25.00	26.00	27.00	28.00	25.00	26.00	27.00	28.00
14 ft.	25.00	26.00	27.00	28.00	25.00	26.00	27.00	28.00
16 ft.	25 00	26.00	27.00	28.00	25.00	26.00	27.00	28.00
18 ft.	26 00	28.00	29.00	30.00	26.00	27.00	28.00	29.00
20 ft.	26.00	28.00	29.00	30.00	26.00	27.00	28.00	29.00
22 ft.	27.00	29.00	30.00	32.00	28.00	28.00	29.00	30.00
24 ft.	29.00	29.00	30.00	33.00	28.00	28.00	29.00	30.00
26 ft.	29.00	30.00	31.00	34.00	30.00	30.00	30.00	31.00
28 ft.	30.00	31.00	32.00	35.00	31.00	31.00	31.00	32.00
30 ft.	31.00	32.00	33.00	36.00	32.00	32.00	32.00	33.00
32 ft.	32.00	33.00	34.00	37.00	33.00	33.00	33.00	34.00
34 ft.	33.00	34.00	35.00	38.00	34.00	34.00	34.00	35.00
36 ft.	34.00	35.00	36.00	39.00	35.00	35.00	35.00	36.00

ITEM 32. BOARDS.

Southern Pine, surfaced or planed to standard thickness.

Price per 1,000 feet.

Grade.	Width.	4 and 6 ft.	Length 8 ft.	10 to 20 ft.
No. 3.	4 in.	$12.00	$15.00	$16.50
No. 3.	6 in.	14.00	16.00	17.00
No. 3.	8 in.	14.00	16.50	17.00
No. 3.	10 in.	14.00	16.50	17.00
No. 3.	12 in.	15.00	17.00	18.00
No. 2.	4 in.	15.00	16.00	20.00
No. 2.	6 in.	16.00	17.00	21.00
No. 2.	8 in.	16.00	18.00	21.00
No. 2.	10 in.	16.00	18.00	21.00
No. 2.	12 in.	16.00	19.00	22.00
No. 1.	4 in.	16.00	20.00	22.00
No. 1.	6 in.	17.00	21.00	23.00
No. 1.	8 in.	17.00	22.00	24.00
No. 1.	10 in.	17.00	22.00	24.00
No. 1.	12 in.	18.00	23.00	25.00

LUMBER PRICE LIST--Cont'd.

ITEM 33. SHEATHING AND LINING.

House Lining, Boxing or Roof Sheathing.	Price, per 1,000 feet.
Square Edged Boards, mixed width and lengths, surfaced one side	$18.00
4 inch Square Edge Roof Sheathing, lengths 8 to 20 feet	16.50
6 inch Tongued and Grooved Lining or Sheathing, lengths 8 to 20 feet	18.00
8 inch Shiplap, 8 to 20 feet	18.00

ITEM 41. BARN BOARDS.

Soft Arkansas Pine.

Carefully selected stock. Surfaced two sides, giving an opportunityto use either side. Will please the most particular.

Width	Price per 1,000 feet. Length—8, 10, 12, 14, 16, 18, 20 ft.	Price per 1,000 feet. Any lengths.
8 in.		$22.00
10 in.		22.00
12 in.		23.00

ITEM 42. TONGUE AND GROOVED BARN BOARDS.

Soft Arkansaw Pine.

Can be used either up and down or across building. Furnished only in 8 and 10 in. widths.

Grade.	Length—8 to 20 ft.	Width.	Price.
Selected stock, same as above		8 or 10 in.	23.00

ITEM 52. SHIP LAP.

Soft Arkansas Pine. Lengths, 8 to 20 feet.

Grade.	Price per 1,000 feet. Random Lgths.	Specified Lgths.
No. 3	$17.00	$18.00
No. 2	21.00	22.00
No. 1	23.00	24.00

ITEM 43. FENCING.

Southern Pine. Rough or Surfaced. Any length, 8 to 20 feet.

Grade.	Price per 1,000 feet. Width. 4 in.	6 in.
No. 2	$20.00	$21.00
No. 1	22.00	23.00

ITEM 44. BEVELED CRIBBING.

Southern Pine. Any length, 8 to 20 feet.

Grade.	Width. 4 in.	6 in.
No. 2	$20.00	$21.00
No. 1	22.00	23.00

ITEM 36. FLOORING.

Hard or Yellow Pine Flooring. 7-8 inch thickness, dressed and matched. Lengths, 8 to 20 feet.

Price per 1,000 feet

	Width. 3 in.	4 in.	6 in.
No 3	$15.00	$15.00	$18.00
No. 2	20.00	20.00	21.00
No. 1	24.00	24.00	25.00
Star	27.00	27.00	.....
Clear Plain	30.00	30.00	.....
Star Edge Grain (¼ sawed)	33.00	33.00	.....
Clear Edge Grain (¼ sawed)	37.00	36.00	.....
2 inch Barn Flooring, No. 2	.....	.....	20.00
2 inch Barn Flooring No. 1	.....	.....	23.00
3 inch Factory Flooring, No. 2	.....	.....	20.00
3 inch Factory Flooring No. 1	.....	.....	23.00
Porch Flooring, No. 1, 1¼ inch thick	.....	.....	24.00

ITEM 40. DROP SIDING OR NOVELTY SIDING.

Soft Arkansas Pine 6 inches wide, ⅞ thick, lengths 8 to 20 ft.

Grade.	Price per 1,000 feet. Random Lengths	Specified Lengths.
No. 2	$20.00	$21.00
No. 1	24.00	25.00
Select	26.00	27.00

ITEM 53. HALF-INCH BEVELED SIDING.

Lap Siding. Weather Board.

Kind.	Grade.	Price per 1,000 feet. 4 in.	5 in.	6 in.
Poplar	C	$20.00	$20.00	$21.00
Poplar	B	22.00	23.00	.....
White Pine	No. 1	20.00	.....	20.00
White Pine	C	23.00	.....	23.00
White Pine	B	28.00	.....	28.00
Spruce	Clear	27.00	.....	28.00
Cypress	C	.....	.....	20.00
Bay Poplar	B	18.00	.....	20.00

ITEM 54. CEILING AND WAINSCOATING.

3¼ in. face, dressed and matched and beaded.

Grade.	Southern Pine. Price per 1,000 feet
No. 2	$20.00
No. 1	23.00
Select	26.00

LUMBER PRICE LIST--Cont'd.

ITEM 55. PARTITION.

3½-inch face, dressed and matched and beaded two sides.
Southern Pine.

Grade.	Price per 1,000 feet.
No. 2	$20 00
No. 1	25.00
Select	26.00

ITEM 56. BATTENS.

Furnished any length up to 20 ft.
Soft Arkansas Pine.

	Price per 100 lineal feet
2 in. Flat	$0.45
2½ in. Flat	.60
3 in. Flat	.75
2 in. O. G.	.70
2½ in. O. G.	.85
3 in. O. G.	.90

For price of White Pine Battens, add 10c per 100 ft.

ITEM 57. SHINGLE LATH AND FURRING STRIPS.

Southern Pine. Length 8 to 20 feet.

Size.	Price per 1,000 lineal feet.
2x2	$7.00
1x2	4.00

ITEM 48. ELEVATOR CRIBBING.

No. 1 and 2 Yellow Pine, surfaced and sized. Random Lengths.
Price per 1,000 feet.

Size.	Mixed Lengths. 3 to 8 ft.
2x4	$10.00
2x6	10.00
2x8	10.00

ITEM 49. PLANKING.

No. 1 and 2 Yellow Pine, for Barn Floors, Platforms, etc. 2x6, 2x8, 2x10, 2x12, mixed widths lengths, 3 to 10 ft.
Price per 1,000 feet $12.00
Any one size, random lengths, price per 1,000 feet 15.00

ITEM 51. BRIDGING.

Size.	Price per piece.
2x4 in.	$0.02
1x4 in.	.02½
1x2 in.	.01½

ITEM 45. Byrkit's Patent Sheathing Lath.

Width. Standard Length. Price per 1,000 feet	4 in.	6 in.
	$18.50	$20.00

ITEM 46. 32 INCH PLASTERING LATH.

Place your Studding on 16-inch centers, and save money.
No. 1 White Pine, price per 1,000 pieces $2.10

ITEM 47. 4 FOOT LATH.

Northern Soft Pine.

	Price per 1,000.
No. 3	$2.50
No. 2	3.50
No. 1	4.50

ITEM 58. PORCH AND STAIR LUMBER.

Thickness.	Price per 1,000 feet
No. 1, 4 in White Pine Flooring, 7-8 in.	$30.00
Select White Pine Porch Flooring, 1¼, 1½ and 2 in.	40.00
Select Yellow Pine Porch Flooring, 1¼, 1½ and 2 in.	28.00
Select Fir Porch Flooring, 1¼, 1½ and 2 in.	45.00
B Select White Pine Step, 10 and 12 in.	70.00
C Select White Pine, Step, 10 and 12 in.	60.00
Clear Cypresss, 1¼, 1½ and 2 in.	75.00

ITEM 61. FINISHING LUMBER.

Surfaced two sides.

Grade. Thickness.	Width. 4 and 6	8 and 10	12
Select No. 1 Yellow Pine, 1 in.	$25.00	$27.00	$29.00
Star Yellow Pine, 1 in.	28.00	30.00	31.00
Clear Yellow Pine, 1 in.	31.00	33.00	34.00
Clear Yellow Pine, 1¼, 1½ and 2 in.	36.00	38.00	40.00
Select No. 1 White Pine, 1 in.	35.00	38.00	40.00
Select No. 1 White Pine, 1¼, 1½ and 2 in.	41.00	43.00	45.00
C Select White Pine, 1 in.	50.00	53.00	55.00
C Select White Pine, 1¼, 1½ and 2 in.	55.00	58.00	60.00
Clear Cypress, 1 in.	60.00	65.00	67.00
Clear Cypress, 1¼, 1½ and 2 in.	75.00	73.00	75.00

For stock surfaced four sides, add $1.00 per M.

LUMBER PRICE LIST--Cont'd.

WHITE PINE.

ITEM 163. BOARDS AND FENCING.

Minnesota Soft Pine.
Price per 1,000 feet.

Grade—Width.	Length. 10 to 16	18 to 20
No. 1— 4 in.	$28.00	$29.00
No. 1— 6 in.	36.00	37.00
No. 1— 8 in.	35.00	36.00
No. 1—10 in.	35.00	36.00
No. 1—12 in.	37.00	38.00
No. 2— 4 in.	26.00	27.00
No. 2— 6 in.	34.00	35.00
No. 2— 8 in.	33.00	34.00
No. 2—10 in.	33.00	34.00
No. 2—12 in.	34.00	35.00

ITEM 164 WHITE PINE FLOORING.

Lengths 8 to 16 feet.

	Price per 1,000 feet.
D, 4 inch Flooring	$37.00
D, 6 inch Flooring	39.00
No. 1, 4 inch Flooring	30.00
No. 1, 6 inch Flooring	36.00
No. 2, 4 inch Flooring	27.00
No. 2, 6 inch Flooring	33.00

Price per 1,000 feet furnished in specified lengths $1.00 additional; 18 and 20 foot lengths add $2.00 per 1,000 feet.

ITEM 165 WHITE PINE SHIPLAP AND DROP SIDING.

Lengths 8 to 20 feet.

	Price per 1,000 feet.
No. 1, 8 inch Drop Siding	$37.00
No. 2, 8 inch Drop Siding	35.00
No. 1, 8 inch Shiplap	36.00
No. 2, 8 inch Shiplap	34.00

For price of 18 and 20 foot lengths add $2.00 per 1,000.

ITEM 166 WHITE CEDAR POSTS.

	Round Diameter at top. 3 in.	4 in.	5 in.	6 in.
7 ft.	$0.10	$0.12	$0.16	$0.25

TESTIMONIALS.

CHICAGO HOUSE WRECKING CO., Chicago, Ills.

Dear Sir:—Please pardon my negligence in not writing before, but have been very busy. The lumber I purchased from you arrived several weeks ago, and I am well pleased with it, **as it was in every respect what I bought and anticipated** it would be when I came to see it. It was all a good grade of lumber. It was neatly put up for shipping and arrived all right and is a perfect satisfaction to me in every way, **and know my visit to your house has well paid me.** I thank you for the promptness in sending the lumber and for the strict ways you conduct your business, for instance, sending the extra bill, so there could be no mistakes in your behalf. Several business men here have made the remark, **"it is better lumber than can be bought here in the lumber yards,"** so you know what the public sentiment is in regard to your lumber. Will likely have another occasion to send again and until then, I remain

Yours for business,
(Signed) E. M. VAN GEISEM,
Mich.

EVERY CUSTOMER TELLS SAME STORY.

N. D., April 14, 1908.

CHICAGO HOUSE WRECKING CO., Chicago, Ills.

Gentlemen:—C. G. W. car No. 15358 containing lumber, nails and shingles was received, all O. K. All the material checks up O. K.

(Signed) JOHN CROTEAN.

SO GOOD, WISHES CAR WAS BIGGER.

OHIO, April 30, 1908.

CHICAGO HOUSE WRECKING CO., Chicago, Ills.

Gentlemen:—I have unloaded my car of lumber and found everything O. K. I only wish the car was bigger, could have used more of your lumber.

Hoping to hear from you, I am,

(Signed) PAUL F. DEUBLE.

QUALITY EXCEPTIONALLY GOOD.

OHIO, May 5, 1908.

CHICAGO HOUSE WRECKING CO., Chicago, Ill.

Gentlemen:—I have sent draft and freight bills as directed and would say that the lumber arrived in good time and good condition and is better than I expected in regard to quality.

I will be pleased to show lumber to prospective buyers if you see fit to refer them to me and recommend same to any one who uses lumber. Flooring and lath is **exceptionally** good.

Sincerely yours,
(Signed) FRED BARRETT.

CAR OF "MAIL-ORDER" LUMBER CAUSES EXCITEMENT.

SO. DAK., May 7, 1908.

CHICAGO HOUSE WRECKING CO., Chicago, Ills.

Gentlemen:—The lumber is here and I am well pleased with the quality and quantity. We have looked it over and everything is O. K. It caused quite an excitement in this town, sending so far for lumber.

The Manager of———————— Lumber Co., was over to see it and thought it was fine. All my neighbors were pleased with the lumber.

(Signed) GEO. PARKER.

RED CEDAR SHINGLES.

ITEM 31.

Standard A Price per 1,000	$2.50
Extra Star A Star. Price per 1000	3.35
Clears—5 to 2. Price per 1000	3.95

DIMENSION SHINGLES.

Square Butts. Price per 1000	$6.30
Fancy Butts. " " "	6.90

All Shingles put up in bunches of (250 Shingles) 4 bunches to a thousand.

HARDWOOD FLOORING.

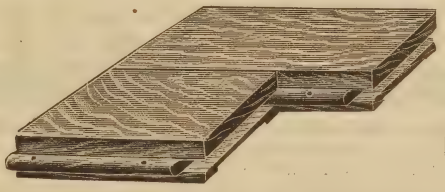
High Grade Steel Polished Hardwood Flooring. The Best Flooring Made.

Our Hardwood Flooring is manufactured from superior kiln dried stock, with the most modern machinery, scientifically treated and properly cured. All select and clear stock, carefully tongue and grooved, end matched and steel polished.

Seven-eighth inch stock is hollow backed and bored for blind nailing.

Three-eighth inch flooring is sold by the 100 lineal feet; 8 lineal feet of 1½ inch face flooring will cover one square foot. Therefore to find out the number of lineal feet you need to cover your boor, multiply the number of square feet to be covered by 8

SELECT RED OR WHITE OAK FLOORING. 65 Cts. Per 100 Lineal Feet.



Select Maple Flooring, Tongue and Grooved, End Matched and Polished. 50 Cts. Per 100 Lineal Feet.

MAPLE FLOORING

GRADE	THICKNESS	WIDTH OF FACE	Price per 100 Lineal Feet.	Price per 1000 Feet Board Measure
Select.....	3-8	1½ inch	$ .50	
Clear	3-8	1½ inch	.60	
No. 1.....	7-3	2¼ inch	.65	$26.00
Select.....	7-8	2¼ inch	.95	37.00
Clear	7-8	2¼ inch	1.10	43.00

PLAIN, RED OR WHITE OAK FLOORING.

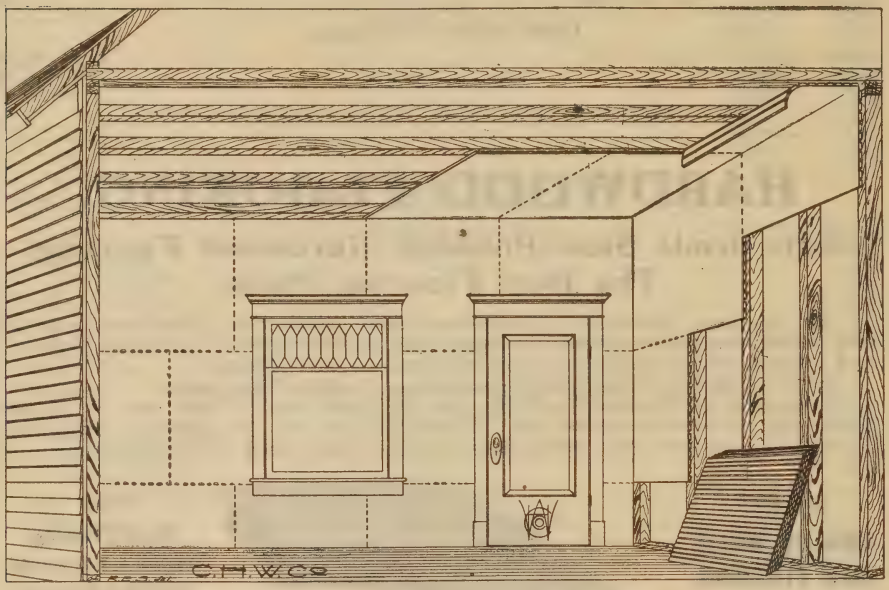
Select.....	3-8	1½ inch	$ .65	
Clear	3-8	1½ inch	.80	
Select.....	7-8	2¼ inch	1.10	$43.00
Clear	7-8	2¼ inch	1.50	58.00

CLEAR QUARTER SAWED OAK FLOORING

Clear ¼ sawed Red Oak..	3-8	1½ inch	$1.10	
Clear ¼ sawed Red Oak..	7-8	2¼ inch	2.20	
Clear ¼ sawed White oak	3-8	1½ inch	1.20	$87.00
Clear ¼ sawed White oak	7-8	2¼ inch	2.40	95.00

"QUICK PLASTER" BOARD

THE MODERN WALL BOARD.



Frequently new inventions, while of more or less meritorious value, are often to expensive for the ordinary purse to successfully displace the old articles. Not so, however, with our new combination sheeting and plaster called "QUICK PLASTER" board. Do not confuse this with any other form or style of substitute for plaster heretofore placed on the market. There is no equal.

A careful study of this subject, with material in hand convinces the most skeptical as to its exceptional merits and as to its value as building material.

IT'S USE.

"QUICK PLASTER" board is used by progressive up-to-date home builders, contractors and real estate dealers in place of lath and plaster, and frequently on the outside of walls in place of sheeting, for the reason that it gives practically an air tight wall, continuous hollow space, minus the dreaded draft cracks ever incident when ordinary sheeting and ineffective building baper is used. **Quick Plaster Board** is a continuous deadener of sound, a conductor of heat and cold and a non-crackable material.

WHAT IT IS.

"QUICK PLASTER" BOARD comes in sheets 4 feet wide and 4 feet 1ong. The flat surface upon which the paper, paint or whitewash is placed is a strong, durable fibrous paper. Upon the back of this has been placed a thick substantial layer hot asphalt mastic and while hot, regular building lath about ½ inch apart have been embedded into this hot solution at the enormous pressure of 500 lbs. to the square inch, thus assuring a positive adhesion, (easy to handle) rigidity and thoroughly stiffening and strenghtening the component parts. Think of a floor withstanding weight of 500 lbs. to the square inch equaling the weight of 36 tons to the square foot. No doubt about **Quick Plaster Board's** durability—No doubt about **Quick Plaster Board's** weather defying qualities—No doubt about **Quick Plaster Board's** low price.

HOW IT IS APPLIED.

"QUICK PLASTER BOARD" is easy to handle and is nailed with the lath side directly to the studding, or to the furring strips for stone, brick and cement block buildings, requiring no special or intricate tools. Anyone oan drive a nail, consequently anyone can apply it

WHY SUPERIOR TO THF COMMON LATH AND PLASTER WALLS for inside plaster purposes. **Quick Plaster Board** cannot crack because it is solid, no unsightly holes, where

you would sometimes drive a nail or insert a screw. Mice will not build nests in it because contains no hair.

It displaces the plasterer. You do not have to wait for him and pay his enormous price, you can put this on yourself. You need not wait for warm weather as there is no danger of **Quick Plaster Board** freezing, it does no freeze. Again there is no delay occasioned by waiting for **Quick Plaster Board** to dry. It is always ready the minute you apply it.

A positive boon to the inexperienced home builder who only builds once in a life time, who is not aware of all the tricks and the ins and outs of the building trade.

A source of great convenience and comfort to the average contractor, because in addition to utilizing any inexperienced help to apply "**Quick Plaster**" **Board** it is not effected by rain, cold or frost. A building can be plastered in winter as well as any other time and save the expense incidental to maintaining heat during the process of drying the common old style plaster.

No more unsightly cracks to patch up—no annoying complaints of plaster loosening its grip— ceiling walls covered in a giffy— changing a nerve racking procedure into a pleasant pastime, pleasant, because it is applied in double quick time and when up, stays up for ever.

BEWARE OF IMITATIONS. "**Quick Plaster**" **Board** is a patented material. It is sold as such by us only and while its exceptional merits as a useful substance, as a combination labor and freight saving commodity, could command a high price, we have forced down the original producing cost to the lowest possible notch and have only added our usual narrow margin of profit.

Our object to market this highly desirable product at this figure is to save you money and to give you a wall for Paper, Paint or Kalsomine that cannot be beat, to give you a wall that you can put up yourself and save more money. In other words: "**Quick Plaster**" **Board** is the ideal combination—none better for any price.

Our price on "**Quick Plaster**" **Board** per square covering 100 square feet of wall space is..... **$2.50**

Mt. Airy, Ohio.

Chicago House Wrecking Co., Chicago Ill.,

Gentlemen:—The two cottages No. 102 you sent me six weeks ago are completed and rented. You actually sent more than I bargained for and the elegant appearance of the inside trim, hardware and especially the **Patent Plaster Board,** has been praised by everyone, who has seen them. Your claim of saving purchasers 50% when buying from you has proved correct in my case.

(Signed) M. Schroeder, Box 29.

The above letter refers to our House Design No. 102, in which Mr. Schroeder used our "**Quick Plaster Board**" throughout.

BE SURE YOU HAVE OUR MODERN UP-TO-DATE BOOK OF PLANS, BEFORE YOU EVEN THINK OF GOING AHEAD WITH YOUR BUILDING IDEAS. WE CAN FURNISH YOU EVERYTHING, LUMBER, MILLWORK, HARDWARE, PAINT, PLASTER BOARD, GUTTERING AND SPOUTING, WE PRACTICALLY LOAD YOUR HOUSE DESIGN COMPLETE ON ONE CAR.

OUR GRAND FREE OFFER

Don't Fail to Get Our

FREE PLAN BOOK

And Our

FREE BLUE-PRINT PLANS AND SPECIFICATIONS PROPOSITION

Our Plan Book positively shows the greatest number of up-to-date economical, artistic and common-sense house, cottage, bungalow and barn plans ever offered the public. The designs are original and planned with a view to using all stock-size material where possible, hence no waste of money or material. Photographs, ground plans and general information of each design are shown.

Our House Design No. 6, as shown above, is one of the most popular designs we have. It has been built again and again and has always been completed with satisfactory results.

The material we use is all **brand new,** of appropriate design and stock.

We can load your house pattern, practically complete, on one car within 24 hours from receipt of order.

Our prices are positively the lowest, because we eliminate all middlemen's profits. Think what this means in an entire building!

Write us. Mention this Catalogue.

Lumber Table of Weights and Measurements.

The following weights are approximate only. It is impossible to give a correct estimate of weights. The information given on this page are for your convenience and are as nearly correct as we can estimate.

Size in Inches.	LENGTH IN FEET OF JOISTS, SCANTLING AND TIMBER.									
	12	14	16	18	20	22	24	26	28	30
2 x 4	8	9	11	12	13	15	16	17	19	20
2 x 6	12	14	16	18	20	22	24	26	28	30
2 x 8	16	19	21	24	27	29	32	35	37	40
2 x 10	20	23	27	30	33	37	40	43	47	50
2 x 12	24	28	32	36	40	44	48	52	56	60
3 x 4	12	14	16	18	20	22	24	26	28	30
3 x 6	18	21	24	27	30	33	36	39	42	45
3 x 8	24	28	32	36	40	44	48	52	56	60
3 x 10	30	35	40	45	50	55	60	65	70	75
3 x 12	36	42	48	54	60	66	72	78	84	90
4 x 4	16	19	21	24	27	29	32	35	37	40
4 x 6	24	28	32	36	40	44	48	52	56	60
4 x 8	32	37	43	48	53	59	64	69	75	80
4 x 10	40	47	53	60	67	73	80	87	93	100
4 x 12	48	56	64	72	80	88	96	104	112	120
6 x 6	36	42	48	54	60	66	72	78	84	90
6 x 8	48	56	64	72	80	88	96	104	112	120
6 x 10	60	70	80	90	100	110	120	130	140	150
6 x 12	72	84	96	108	120	132	144	156	168	180
8 x 8	64	75	85	96	107	117	128	139	149	160
8 x 10	80	93	107	120	133	147	160	173	187	200
8 x 12	96	112	128	144	160	176	192	208	224	240
10 x 10	100	117	133	150	167	183	200	217	233	250
10 x 12	120	140	160	180	200	220	240	260	280	300
12 x 12	144	168	192	216	240	264	288	312	336	360
12 x 14	168	196	224	252	280	308	339	364	392	420
14 x 14	196	229	261	294	327	359	392	425	457	490

Approximate Weight of Lumber.

A carload of lumber consists of from ten to fifteen thousand feet, The minimum weight of a carload is usually 30,000 lbs, It requires about 12,000 feet to make a carload. We can, however, load up to 25,000 feet on a single car, or we can include additional material of some classification up to about 75,000 pounds. The above table will enable you to estimate how many feet of lumber you will need in making up the weight of a minimum car.

Weight of Doors and Sash.

In estimating the weights of doors we can only give you an approximate idea. Doors and windows take the same rate as lumber. 7-8-inch doors of average size 17 to 24 lbs. each. 1 1-8-inch doors from 22 to 33 lbs. 1 3-8-inch doors from 33 to 40 lbs.

Windows glazed weigh from 12 to 40 lbs. each. This is for average weight window. However, when you furnish us a list of exact material you require, we will estimate the freight for you, and tell you just how much the material will weigh and will also give you freight rate, so you will at once be able to find out the complete cost of your requirements, freight paid.

We guarantee satisfaction. You will get material just as you buy it. We have on file hundreds of letters from people who have bought lumber from us in the past, and will be glad to send you copies of them.

We Carry Roof Covering of Every Description.

MILL WORK. Sash, Doors, Moulding Etc.

Prices Low — Quality High.

THE CHICAGO HOUSE WRECKING COMPANY is in a better position to give you low prices on brand new Millwork than any other concern on earth. In addition to buying our material in the regular way in immense quantities we also buy large quantities of standard stock material at various forced sales and therefore can offer to the public, material of the very best quality at money saving prices. Our material is guaranteed in every instance to be exactly as represented and up to grade in every respect.

It is all BRAND NEW, strictly bright and clean, clear and dry stock, absolutely the best workmanship and perfectly suitable for oil finish, stain finish, or any other kind of finish you may wish to effect.

QUALITY.

We are pleased to have our millwork compared with any in the United States and have been told by many customers that ours is the best. All material used in millwork is exceptionally well air seasoned thoroughly kiln-dried lumber, all the joints are glued with imported glue pressed together by a tremendous steam power press, sand papered, finished with special care and we invite and challenge the comparison of any article usually sold at much higher price by other dealers.

Our windows are all primed with pure linseed oil and puttied with the best oil and lead putty and all millwork is bright, clear and clean stock and is sold at way down prices.

SEND US YOUR LIST.

It will be well for you to send in a complete list of your requirements in Mill Work as we frequently have on hand standard stocks that come to us through special sales which we can figure in your estimate at considerably lower prices than quoted in the catalog. However, if you do not wish to do this you can make up your order from our catalog with perfect safety and feel that you are getting exactly what our catalog quotes.

SPECIAL WORK.

We are in a position to give immediate attention to any kind of special Mill Work, such as special Doors, Windows, Church Windows, Interior Finish, Panel Work, Etc., Etc.

FOR THE FACTORY OR HOME.

We call attention to our detail list of World's Fair and used Doors on pages 44 to 47, and Sash on pages 56 to 58 of this catalog. On these pages you will find a tremendous assortment of Sash and Doors of all kinds which we are offering at "wrecking" prices.

FACTORY.

We have furnished hundreds of factory buildings complete with Sash and Doors and have saved builders from 50 to 75 per cent on same.

We have a large assortment of semi-prismatic factory ribbed glass and factory sash that we are selling at unheard of low prices and if you contemplate erecting a building, work shop, or other buildings where sash of this class can be used to advantage, correspond with us to get our prices and sizes and adjust your openings accordingly.

WRITE US.

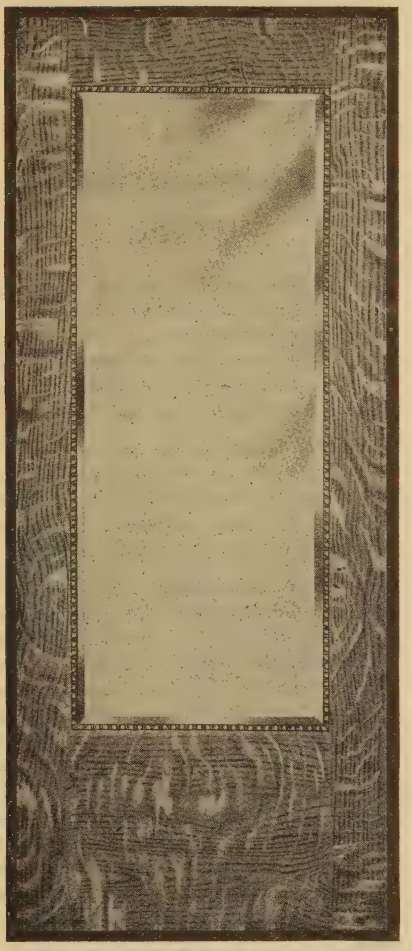
SEND US YOUR LIST FOR OUR ESTIMATE.

WE MAKE IT FREIGHT PREPAID.

HAVE YOU A COPY OF OUR BOOK OF PLANS?

HARDWOOD FRONT DOORS.

VENEERED RED OAK, 1¾ In. THICK.



AMERICAN BEAUTY

Glazed with Double Strength "A" Quality Glass,

$5.98

Glazed Best Plate with Wide Bevel,

$9.15

All our hardwood veneered doors represent the highest type of modern door making and the exceptionally low price on our "American Beauty" hardwood veneered door is only another illustration of this company's progressiveness. No other concern ever dared to place such a low price on such a high class door. The workmanship is all anybody could wish, and when others are offering doors of this character at a bargain price, we consider this door represents a better bargain price. By the use of our high grade, hardwood front doors, you will not only enhance the beauty of the home, but increase the value of your property many fold. If these doors are properly handled when received and taken care of, they will practically outlast any ordinary building. Strong, durable, lasting.

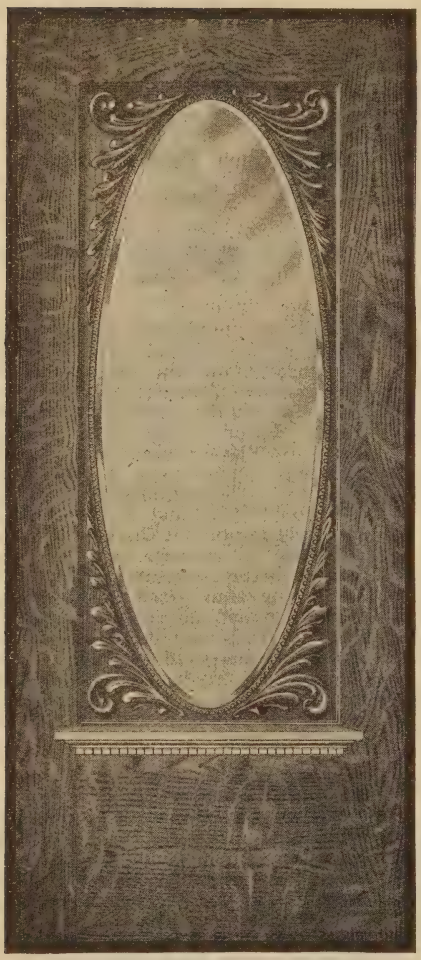
Great care is taken in packing all our hardwood doors so that they will reach you in perfect condition, fresh from our planing mlils. No one could possibly use a better grade of ingredients for the veneering process; no one could possibly expend more time on their manufacture, and, when we say that we are offering you a strictly modern, high grade door at a low price, you know that you are receiving the benefit of a bargain price.

VENEERED RED OAK, 1¾ INCHES THICK

American Beauty.	Price. D. S. A. Glass.	Price. Sand Blast Glass.	Price Beveled Plate.
2′ 8″ x 6′ 8″.	$5.98	$6.65	$9.15
2′ 10″ x 6′ 10″.	6.45	7.10	11.10
2′ 8″ x 7′	6.40	7.00	10.50
3′ x 7′	6.75	7.25	11.70

HARDWOOD FRONT DOORS.

VENEERED RED OAK---1¾ Inch Thick



MORNING GLORY.

ALL HAND CARVED NO COMPOSITION WORK.

To fully appreciate the wonderful value and the high class workmanship of this door, it should be personally inspected, if that were possible. Symmetrically correct, it embodies all the desirable qualities a strictly high class door demands.

This design, as well as our "American Beauty," is a door in quality and appearance, as well as manufacture, that is fit to grace any residence, regardless of cost.

A beautiful front door makes a wonderful difference in the appearance of a house, and many a dwelling is often judged by the front door. We give you an opportunity to make a selection from a very large variety of designs, in all kinds and classes; all at extremely low prices, and all of a high grade of manufacture. We purchase in large quantities—exceptionally large. This accounts for our ability to make low prices, and it is low prices with high quality that brings the orders. We make quick shipments. guarantee safe delivery, and you run no risk.

VENEERED RED OAK--1 3-4 Inch Thick.

Sizes of Doors.	Glazed plain, Double A Glass	Glazed Fancy Sand Blast Glass.	Glazed Clear Beveled Plate.
2′ 8″ x 6′ 8″	$10.50	$11.40	$13.80
2′ 10″ x 6′ 10″	10.55	11.50	14.60
2′ 8″ x 7′	10.80	11.70	14.60
3′ x 7′	11.10	11.80	15.60

HARDWOOD FRONT DOORS

VENEERED RED OAK---$1\frac{3}{4}$ Inch. Thick.

LILY OF THE VALLEY

THE MOST POPULAR DESIGN ON THE MARKET TO-DAY

ALL HAND CARVED

Many home builders prefer a door containing a somewhat smaller light of glass and still retain the expensive appearance. We believe we have succeeded in applying this idea to our celebrated LILY OF THE VALLEY Door. This door, while listed at a lower price than others usually ask for the same design, contains the same high grade material, is handled with the same care goes through the same painstaking process as our "American Beauty" and "Morning Glory" hardwood veneered doors.

This is a serviceable neat, lasting, and first-class door in every respect.

VENEERED RED OAK—1 3-4 Inch Thick.

Sizes of Doors.	Glazed Plain, Double A Glass.	Glazed Fancy, Sand Blast Glass.	Glazed Clear Beveled Plate.
2′ 8″ x 6′ 8″	$6.70	$7.10	$9.50
2′ 10″ x 6′ 10″	7.20	7.60	11.15
2′ 8″ x 7′	7.30	7.75	11.20
3′ x 7′	7.45	7.90	12.40

SOFT PINE FRONT DOORS

"AA" First Class Soft W. Pine Strictly A No. 1

QUALITY

ORANGE BLOSSOMS **HONEY SUCKLE**

Our Soft Pine Front Doors cannot be equaled for durability. No other soft wood is more susceptible to the workman's tool, nor contains more weather-defying qualities. All of our first quality front doors are especially prepared for oil-finishing purposes, and when you purchase any of our doors you will know that they are ready for the finisher. The two modern designs offered on this page are adaptable for many purposes—a fitting ornament for the higher priced residence, and will not look out of place in the smaller cottage. We especially recommend them for vestibule purposes. The plate glass containing an unusual wide bevel is of crystal clearness, rivaling the finest French or German plate-maker's art.

ORANGE BLOSSOM.		1⅜ Thick.	HONEYSUCKLE.	
Glazed Plain, Double A Glass.	Glazed Clear, Bevel Plate.	"A" Quality SOFT PINE.	Glazed Plain, Double A Glass.	Glazed Clear, Bevel Plate.
$7.00	$11.80	2′ 8″ x 6′ 8″. . . .	$3.60	$8.10
7.60	13.10	2′ 10″ x 6′ 10″. . . .	4.20	9.30
7.70	12.90	2′ 8″ x 7′	4.30	9.00
8.10	14.30	3′ x 7′	4.65	10.20

For Doors 1¾ inches thick, add $1.15.

SOFT PINE FRONT DOORS.

GOLDENROD

"AA"
(Double A)
Soft
W.
Pine

Strictly
First-Class
Q
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A
L
I
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Y

$1\frac{3}{4}$ in. thick

MAGNOLIA

Here is another illustration of our high grade, low priced doors. All strictly first quality, of the very latest patetrn. Do not overlook the fact that all the material entering into our doors is thoroughly seasoned and manufactured in one of the best equipped plants on the continent. For this reason, there is no chance whatever that any of our soft pine doors will open up or prove unsatisfactory. No front door is permitted to leave the plant unless it is a strictly first-class door. The beautiful lace design on our glass is etched thereon by the latest improved method and no other fancy glass, we are sure, will equal it at the price.

GOLDENROD.			$1\frac{3}{8}$ in. thick.	MAGNOLIA.		
Glazed plain double "A" Glass.	Glased as illustrated	Glazed clear Bevel plate.	"A" quality Soft Pine.	Glazed plain double "A" Glass.	Glazed like Goldenrod.	Glazed clear Bevel plate.
$4.90	**$5.15**	**$7.00**	2′ 6″x6′ 6″	**$4.00**	**$4.40**	**$6.80**
5.15	**5.40**	**7.30**	2′ 8″x6′ 8″	**4.10**	**4.60**	**7.00**
5.70	**6.15**	**8.90**	2′10″x6′10″	**4.70**	**5.10**	**8.65**
5.80	**6.20**	**8.95**	2′ 8″x7′	**4.80**	**5.25**	**8.80**
6.10	**6.50**	**10.80**	3′ x7′	**4.95**	**5.40**	**10.20**

For Doors $1\frac{3}{4}$ inch thick, add **$1.15.**

SOFT PINE FRONT DOORS

FORGET-ME-NOT

"A" Quality Soft Pine $1\frac{3}{8}$ Inch. Thick

$3.28 to $4.61

MIGNONETTE

Please bear in mind that these doors while lower priced than those listed on the previous pages, are manufactured from first quality soft pine lumber. The same care is taken with them throughout and all the ornaments are genuine wood carvings. No imitation or composition work permitted of any character. The glass illustrations are true to every detail and when you order the plain glass from us, you will know that you will get strictly double strength "A".

FORGET-ME-NOT			MIGNONETTE	
Glazed Plain Double Strength A	Glazed as Illustrated	SIZES OF DOORS	Glazed Plain Double Strength A	Glazed as Illustrated
$3.28	$3.50	2′ 6″ x 6′ 6″	$3.39	$3.57
3.50	3.75	2′ 8″ x 6′ 8″	3.50	3.73
3.97	4.21	2′ 10″ x 6′ 10″	3.97	4.21
4.21	4.44	2′ 8″ x 7′	4.16	4.40
4.40	4.62	3′ x 7′	4.40	4.61

For Doors $1\frac{3}{4}$ in. thick, add **$1.15.**

SOFT PINE FRONT DOORS

HOLLY

"A"
Quality Soft
Pine
$1\frac{3}{8}$ inches
thick

$3.40
to
$5.00

MISTLETOE

Here we offer two more popular designs. Strictly "A" quality soft pine, grade for grade, kind for kind. These doors represent an exceptionally high value, and price is a bargain.

These patterns are especially adapted for cottages, being neat and substantial in appearance and offered at a price within the reach of all. There are many houses with doors not nearly as pretty or as good, the builders of which have paid more than double the price we ask for the above. These doors are all wood, no composition work of any kind. Glass designs first-class and true to detail.

HOLLY.			MISTLETOE.	
Glazed Plain, double strength A.	Glazed as illustrated.	Sizes of Doors.	Glazed Plain, double strength A.	Glazed as illustrated.
$3.40	**$3.50**	2′ 6″ x 6′ 6″	**$3.73**	**$4.16**
3.50	**3.70**	2′ 8″ x 6′ 8″	**3.87**	**4.28**
4.16	**4.33**	2′ 10″ x 6′ 10″	**4.33**	**4.75**
4.20	**4.40**	2′ 8″ x 7′	**4.40**	**4.86**
4.46	**4.68**	3′ x 7′	**4.56**	**5.00**

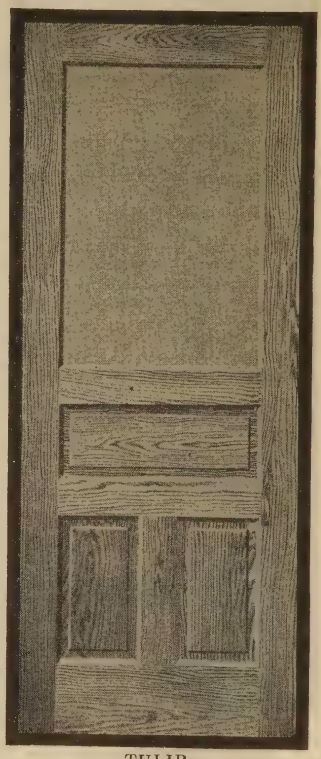
For Doors $1\frac{3}{4}$ in. thick, add **$1.15.**

SOFT PINE FRONT DOORS

WILDFLOWER

"A" Quality Soft Pine $1\frac{3}{8}$ Inches Thick

$2.93 to $4.28



TULIP

Our "Wildflower" and "Tulip" designs are two as popular designs as are on the market for moderate priced front doors. We will back them against any door on the market for durability, workmanship and finish. Soft pine is easily worked and there is no other material for such purposes that is better and more weather defying in quality.

WILDFLOWER.			TULIP.	
Glazed Plain double strength A.	Glazed as illustrated.	Sizes of Doors.	Glazed Plain double strength A.	Glazed Sand Blast.
$3.20	$3.47	2′ 6″ x 6′ 6″	$2.93	$3.10
3.40	3.62	2′ 8″ x 6′ 8″	3.10	3.28
3.93	4.16	2′ 10″ x 6′ 10″	3.70	3.87
3.97	4.21	2′ 8″ x 7′	3.74	3.92
4.28	4.52	3′ x 7′	4.10	4.28

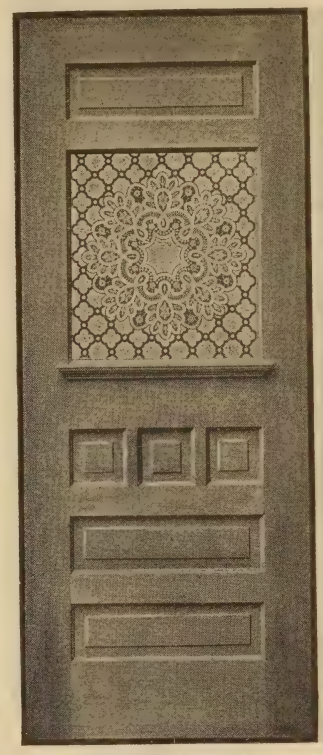
For Doors $1\frac{3}{4}$ in. thick, add $1.15.

SOFT PINE FRONT DOORS.

VIOLET

"A" Quality Soft Pine $1\frac{3}{8}$ inch Thick.

$3.00 to $5.67



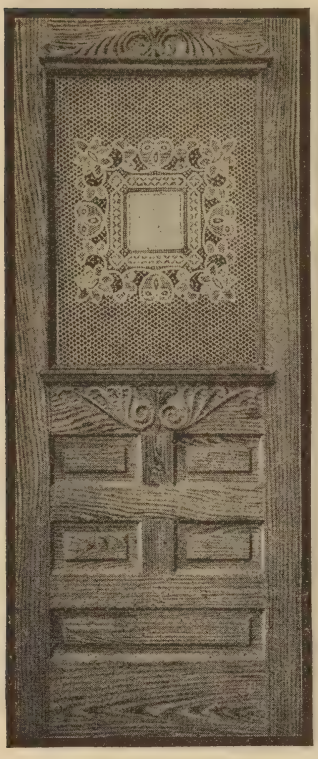
SMILAX

Here are two brand new designs just as appropriate as they can be. Material "A" quality soft pine, workmanship the very best, glass as neat and pretty a design as can be had anywhere, and all in all, it would be a hard matter to make a selection of one against the other. All that is necessary to make a decision is a matter of taste. One is just as good as the other, and in its class there are none on the market that are any better.

VIOLET.			SMILAX.	
Glazed Plain double strength A.	Glazed as illustrated.	Sizes of Doors.	Glazed Plain double strength A.	Glazed as illustrated.
$3.00	$3.20	2′ 6″ x 6′ 6″	$3.07	$3.53
3.13	3.33	2′ 8″ x 6′ 8″	3.20	3.73
3.73	3.93	2′ 10″ x 6′ 10″	3.73	4.24
3.80	4.00	2′ 8″ x 7′	3.87	4.33
4.13	4.32	3′ x 7′	4.13	4.67

For Doors $1\frac{3}{4}$ inch thick, add $1.15.

SOFT PINE FRONT DOORS



SUNFLOWER

"A" Quality Soft Pine $1\frac{3}{8}$ inch Thick.

$3.50 to $5.58

PEONY

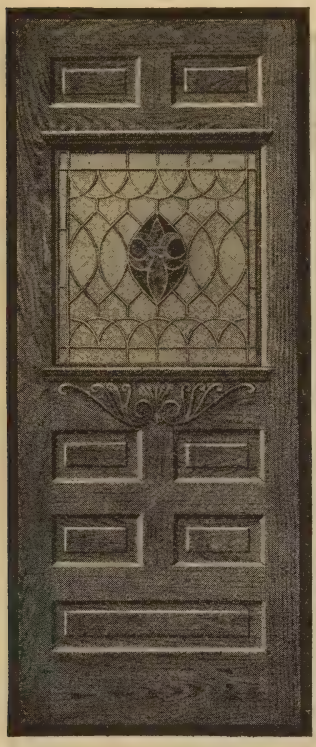
Here are two special designs, very popular and low priced. The material is "A" quality soft pine, just the same as is used in doors three to four times the cost, and as far as workmanship goes, there is none better.

The carving on these two doors is neat and appropriate, no ginger bread about it, just solid, substantial and lasting material.

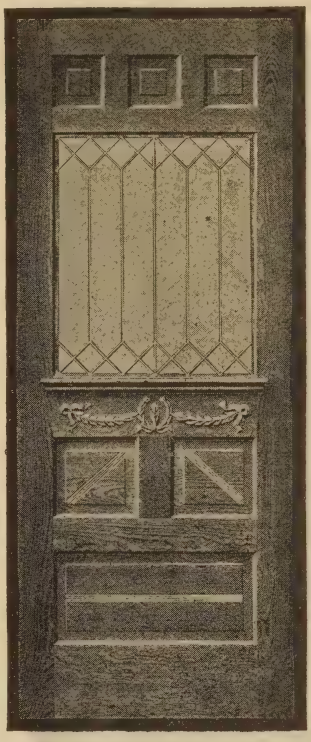
SUNFLOWER.			PEONY.	
Glazed Plain, double strength A.	Glazed as illustrated.	Sizes of Doors.	Glazed Plain, double strength A.	Glazed as illustrated.
$3.50	$3.93	2′ 6″ x 6′ 6″	$3.93	$4.45
3.69	4.04	2′ 8″ x 6′ 8″	4.13	4.60
4.16	4.53	2′ 10″ x 6′ 10″	4.67	5.17
4.28	4.62	2′ 8″ x 7′	4.80	5.28
4.56	4.86	3′ x 7′	5.07	5.58

For Doors $1\frac{3}{4}$ in. thick, add **$1.15.**

ART GLASS DOORS



"A" Quality Soft Pine $1\frac{3}{8}$ inch thick. Leaded Colored Art Glass.



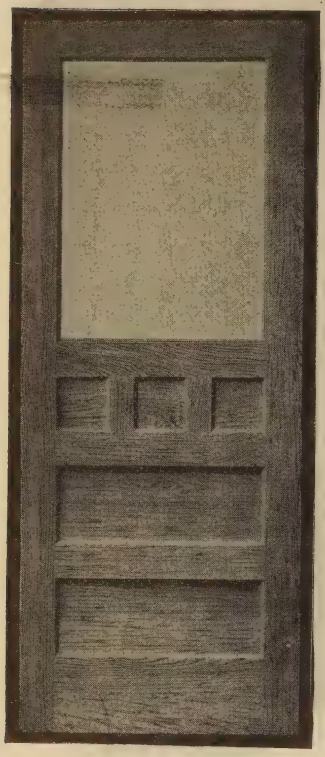
ORCHID **GERANIUM**

Our "Orchard "and "Geranium" designs are two of the handsomest doors that are popularly called for on the market to-day, beautiful leaded art glass, the finest and best workmanship that can be produced, which gives these doors a wonderfully artistic and rich effect. Any home owner could be proud of his home if a door of either of the above graced his house, and at the exceptionally low prices that we are making on these particular designs, it will be well worth your while to investigate the merits of this class of doors before you make your purchase. Up to a few years ago, it was only the millionaire who was supposed to have art glass windows and doors in his house, but our price enables every one to have at least a few.

ORCHID		GERANIUM	
Glazed leaded, Colored Art.		Glazed, D. S. leaded, Crystal.	
2′ 6″ x 6′ 6″	$5.50	2′ 6″ x 6′ 6″	$4.10
2′ 8″ x 6′ 8″	5.85	2′ 8″ x 6′ 8″	4.35
2′ 10″ x 6′ 10″	6.80	2′ 10″ x 6′ 10″	4.90
2′ 8″ x 7′	6.80	2′ 8″ x 7′	5.00
3′ x 7′	7.45	3′ x 7′	5.40

For Doors $1\frac{3}{4}$ in. thick, add **$1.15.**

REDWOOD FRONT DOORS.



MADE FROM CLEAR STOCK $1\frac{3}{8}$ inch THICK.

$2.50 to $3.80

CARNATION **PRIMROSE**

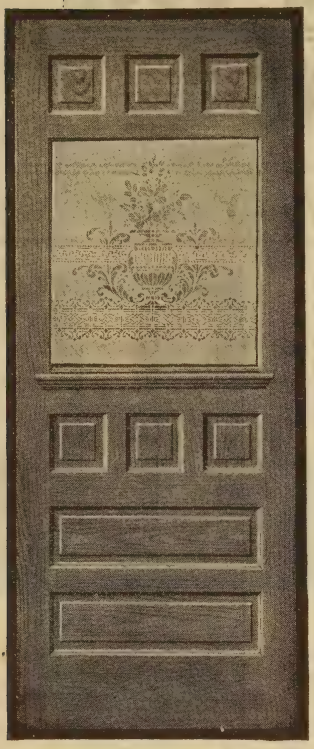
Here we are offering something entirely new in front doors, at almost as low a price as the commonest panel door without glass. These doors are made from strictly clear Redwood lumber, the well-known product of the Pacific Coast. Here you have a door that will take oil finish as well as the finest hardwood door. We are sure no one ever offered you anything that could be oil finished anywhere near this price. We especially recommend them to the economical buyer who must keep within certain bounds, to use them for outside purposes, and by using our low-priced, painted and grained doors for the inside portion of the house you have a money-saving combination that cannot be beat.

CARNATION.		PRIMROSE.	
Glazed, Plain, double strength A.		Glazed as Illustrated.	
2′ 6″ x 6′ 6″	$2.50	2′ 6″ x 6′ 6″	$2.73
2′ 8″ x 6′ 8″	2.67	2′ 8″ x 6′ 8″	2.87
2′ 10″ x 6′ 10″	3.40	2′ 10″ x 6′ 10″	3.60
2′ 8″ x 7′	3.40	2′ 8″ x 7′	3.60
3′ x 7′	3.60	3′ x 7′	3.80

Furnished $1\frac{3}{8}$ thickness only.

FRONT DOORS

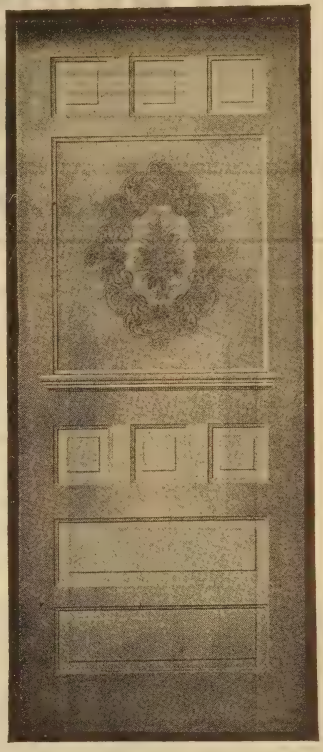
Painted and Grained



A High-Class Painted or Grained Door

First-class Quality for the Grade

$2.27 to $3.13



PANSY (Grained) **DAISY (Painted)**

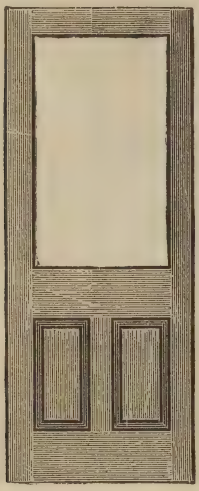
Without question these doors are not only the lowest priced, painted and grained front doors on the market, but they are the best possible value for the price as well. The lumber entering into the construction of all our painted and grained doors is well seasoned stock, the same as is used for first quality doors, with the exception that it is of lower grade, that's all. We can entirely recommend them to give good service, especially appealing to the economical buyer.

The glass contained in these doors is of the same superior quality as our higher priced doors, same care being taken in their glazing and packing for shipment; in fact, when you order these doors from us you get all the value, with the high price squeezed out.

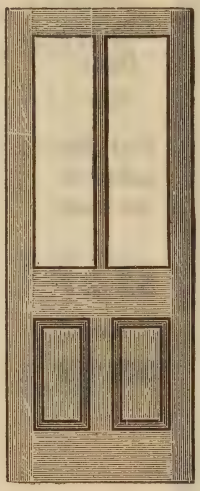
PANSY.		1⅜ thick.	DAISY.	
Glazed Plain, double strength A.	Glazed as illustrated.	Sizes of Doors.	Glazed Plain, double strength A.	Glazed as illustrated.
$2.40	$2.60	2′ 6″ x 6′ 6″	$2.27	$2.47
2.47	2.67	2′ 8″ x 6′ 8″	2.34	2.53
2.73	2.87	2′ 10″ x 6′ 10″	2.60	2.73
2.73	2.87	2′ 8″ x 7′	2.60	2.73
3.13	3.26	3′ x 7′	3.00	3.13

SPECIAL SASH DOOR BARGAINS

SELLING AT PRACTICALLY COST.



"MONEYSAVER."
One Light.



"ECONOMY."
Two Lights.

"ROCKBOTTOM."
Four Lights.

1 3-8 inch Thick.	MONEYSAVER	ECONOMY	ROCKBOTTOM
PAINTED	Glazed Plain One Large Glass.	Glazed Plain Two Lights.	Glazed Plain Four Lights.
2-6x6-6	$1.85	$1.80	$1.75
2-8x6-8	2.00	1.90	1.85

We are here offering three special bargains. They are not offered at rock-bottom-money-saving or economical prices **in name only,** but the bargain price is a **reality-in-fact.** While made of lower grade of lumber than used for our first quality doors the lumber is nevertheless strictly soft Pine. As we must find some outlet for such lumber which will not grade up to our "A" quality doors, therefore, we use it for the purpose of making these bargain doors at real bargain prices.

None of the imperfections show on the surface, being fully and carefully covered with high grade paint and other ingredients. Please understand well that any imperfections will not in any way effect the strength or wearing quality of these doors and many users would prefer nothing else for the lower priced building operations.

We wish to impress upon your mind strongly the fact that they are strictly brand new fresh from the machines.

Modern Store Doors

or Vestibule Doors

We cannot say too much in favor of the strength and high grade quality of our modern store doors as illustrated on this page. While the general style and size submitted are primarily intended for store front purposes, they are entirely suitable for front and vestibule doors. In fact, we might say they are considered even stronger than most of the front doors now put on the market for the same thickness and grade of material used.

We especially recommend our "Winner" design for this very same purpose. We offer this door in two kinds of glass, both double strength "A" and brand new plate.

Prices are for one pair of doors as Illustrated.

WINNER

1¾ inch Thick	Glazed D. S.A. Glass	Glazed Plate Glass	Size of Glass
5.0x7.0	$11.25	$18.00	20x50
5.0x7.6	12.00	20.00	20x56
5.0x8.0	12.60	23.50	20x62
5.4x7.0	12.60	20.25	22x50
5.4x7.6	12.80	21.65	22x56
5.4x8.0	13.25	23.00	22x62
6.0x7.0	13.20	28.00	26x50
6.0x7.6	13.80	27.40	26x56
6.0x8.0	15.00	29.00	26x62

Please do not be confused by our price, which is for one pair of doors, or two doors. Should you wish to use a single door, our "Winner" for the front door only, or vestibule door, the price will be just half of the quotations given.

Prices are for one pair of doors as illustrated.

PREMIUM

1¾ in. Thick	Glazed D. S. A. Glass.	Size of Glass
5.0x7.0	$ 9.75	20x24
5.0x7.6	10.80	20x27
5.0x8.0	10.85	20x30
5.4x7.0	10.80	22x24
5.4x7.6	10.85	22x27
5.3x9.0	11.30	22x30
6.0x7.0	11.15	26x24
6.0x7.6	12.00	26x27
6.0x08.	12.70	26x30

Single doors half price.

Brand New FOUR PANEL O. C. DOORS White Pine Raised Panels Both Sides. Lot D 1.

Size.	Thick. Inches	Price A Qual.	Price B Qual.	Price C Qual.
2′ 0″x6′ 0″	1⅛	$1.58	$1.50	$1.22
2′ 6″x6′ 0″	1⅛	1.79		
2′ 4″x6′ 4″	1⅛	1.78	1.69	
2′ 0″x6′ 6″	1⅛	1.74	1.69	
2′ 4″x6′ 6″	1⅛	1.83	1.74	
2′ 6″x6′ 6″	1⅛	1.83	1.74	1.46
2′ 6″x6′ 8″	1⅛	1.90	1.79	
2′ 8″x6′ 8″	1⅛	1.94	1.83	1.55
2′10″x6′10″	1⅛	2.54	2.16	1.78
3′ 0″x7′ 0″	1⅛	2.54	2.43	2.06
2′ 0″x6′ 0″	1⅜	1.83	1.63	
2′ 6″x6′ 0″	1⅜	2.07	1.83	
2′ 8″x6′ 0″	1⅜	2.18		
2′ 4″x6′ 4″	1⅜	1.99	1.79	
2′ 0″x6′ 6″	1⅜	1.94	1.74	
2′ 2″x6′ 6″	1⅜	2.07	1.85	
2′ 4″x6′ 6″	1⅜	2.07	1.85	
2′ 6″x6′ 6″	1⅜	2.07	1.85	1.52
2′ 8″x6′ 6″	1⅜	2.18	1.95	
2′ 0″x6′ 8″	1⅜	2.07	1.85	
2′ 2″x6′ 8″	1⅜	2.12	1.90	
2′ 4″x6′ 8″	1⅜	2.12	1.90	
2′ 6″x6′″ 8	1⅜	2.18	1.95	
2′ 8″x6′ 8″	1⅜	2.18	1.95	1.61
2′ 6″x6′10″	1⅜	2.43	2.15	
2′ 8″x6′10″	1⅜	2.50	2.18	
2′10″x6′10″	1⅜	2.59	2.34	1.84
2′ 0″x7′ 0″	1⅜	2.54	2.30	
2′ 8″x7′ 0″	1⅜	2.59	2.34	
2′ 4″x7′ 0″	1⅜	2.59	2′34	
2′ 6″x7′ 0″	1⅜	2.61	2.37	
2′ 8″x7′ 0″	1⅜	2.70	2.43	
2′10″x7′ 0″	1⅜	2.70	2.54	
3′ 0″x7′ 0″	1⅜	2.86		2.12
2′ 6″x7′ 6″	1⅜	3.05		
2′ 8″x7′ 6″	1⅜	3.15	2.83	
2′10″x7′ 6″	1⅜	3.26		
3′ 0″x7′ 6″	1⅜	3.41		
2′ 6″x8′ 0″	1⅜	3.59		
2′ 8″x8′ 0″	1⅜	3.70		
3′ 0″x8′ 0″	1⅜	3.95		
2′ 6″x6′ 6″	1¼	3.10		
2′ 8″x6′ 8″	1¼	3.26	2.94	
2′10″x6′10″	1¼	3.90	3.52	
2′ 6″x7′ 0″	1¼	3.92	3.53	
2′ 8″x7′ 0″	1¼	4.06		
2′10″x7′ 0″	1¼	4.22		
3′ 0″x7′ 0″	1¼	4.30	3.88	
2′ 6″x7′ 6″	1¼	4.57		
2′ 8″x7′ 6″	1¼	4.73		
2′10″x7′ 6″	1¼	4.89		
3′ 0″x7′ 6″	1¼	5.11		
2′ 6″x8′ 0″	1¼	5.38		
2′ 8″x8′ 0″	1¼	5.55		
3′ 0″x8′ 0″	1¼	5.93		

PAINTED AND GRAINED DOORS.

4 Panel O. G. Doors.

LOT D 7.

Size.	Painted.	Grained.
2′6″x6′6″x1⅛′	$1.12	$1.30
2′8″x6′8″x1⅛″	1.17	1.35

Brand New FIVE PANEL O.G DOOR. White Pine Raised Panels Both Sides, Lot D 2.

Size.	Thickness Inches.	Price A Quality.	Price, B Quality
2′ 6 x6′ 6″	1⅛	$1.96	$1.85
2′ 8″x6′ 8″	1⅛	2.05	1.94
2′ 0″x6′ 0″	1⅜	1.94	1.76
2′ 4x″6′ 4″	1⅜	2.10	
2′ 0″x6′ 6″	1⅜	2.05	1.85
2′ 2″x6′ 6″	1⅜	2.18	1.95
2′ 4″x6′ 6″	1⅜	2.18	1.95
2′ 6″x6′ 6″	1⅜	2.18	1.95
2′ 0″x6′ 8″	1⅜	2.18	1.95
2′ 2″x6′ 8″	1⅜	2.23	2.01
2′ 4″x6′ 8″	1⅜	2.23	2.01
2′ 6x″6′ 8″	1⅜	2.38	2.07
2′ 8x″6′ 8″	1⅜	2.38	2.07
2′10″x6′10″	1⅜	2.70	2.35
2′ 0″x7′ 0″	1⅜	2.65	2.40
2′ 2″x7′ 0″	1⅜	2.70	2.45
2′ 4″x7′ 0″	1⅜	2.70	2.45
2′ 6″x7′ 0″	1⅜	2.72	2.48
2′ 8″x7′ 0″	1⅜	2.81	2.54
2′10″x7′ 0″	1⅜	2.92	2.65
3′ 0″x7′ 0″	1⅜	2.97	2.70
2′ 6″x7′ 6″	1⅜	3.15	
2′ 8″x7′ 6″	1⅜	3.26	
2′10″x7′ 6″	1⅜	3.37	
3′ 0″x7′ 6″	1⅜	3.52	
2′ 6″x8′ 0″	1⅜	3.70	
2′ 8″x8′ 0″	1⅜	3.81	
2′10″x8′ 0″	1⅜	4.06	
3′ 0″x8′ 0″	1⅜	4.06	
2′ 6″x6′ 6″	1¼	3.21	
2′ 8″x6′ 8″	1¼	3.37	
2′10″x6′10″	1¼	4.01	
2′ 6″x7′ 0″	1¼	4.02	
2′ 8″x7′ 0″	1¼	4.17	
2′10″x7′ 0″	1¼	4.33	
3′ 0″x7′ 0″	1¼	4.40	
2′ 6″x7′ 6″	1¼	4.68	
2′ 8″x7′ 6″	1¼	4.84	
2′10″x7′ 6″	1¼	5.00	
3′ 0″x7′ 6″	1¼	5.22	
2′ 6″x8′ 0″	1¼	5.49	
2′ 8″x8′ 0″	1¼	5.65	
2′10″x8′ 0″	1¼	6.04	
3′ 0″x8′ 0″	1¼	6.04	

FOUR PANEL INCH O. G. DOORS.

Raised Panels One Side.

Lot D 6.

Size.	Price, AQuality	Price, BQuality	Price, CQuality
2′x0″x6′0″	$1.12	$1.00	$0.88
2′4″x6′4″	1.25	1.18	
2′0″x6′6″	1.20	1.12	
2′6″x6′6″	1.25	1.18	.99
2′8″x6′8″	1.41	1.34	

Inch Doors finish up about 13-16 inch thick, and have Bevel Panels one side.

LOT D4.

High Grade Yellow Pine Panel Doors.

These Doors have "A" Quality, White Pine Stiles and Rails and Yellow Pine Panels.

LOT D5.

5 PANEL O. G. DOORS. D4.

Size.	A Quality 1⅜ in. thick.	A Quality 1¾ in. thick.
2′ 0″x6′ 0″	$1.95	
2′ 0″x6′ 6″	2.05	
2′ 2″x6′ 6″	2.10	
2′ 4″x6′ 6″	2.19	
2′ 6″x6′ 6″	2.19	
2′ 0″x6′ 8″	2.19	
2′ 2″x6′ 8″	2.24	
2′ 4″x6′ 8″	2.24	
2′ 0″x6′ 8″	2.28	
2′ 8″x6′ 8″	2.29	$3.35
2′10″x6′10″	2 65	4.00
2′ 0″x7′ 0″	2.71	
2′ 2″x7′ 0″	2.70	
2′ 4″x7′ 0″	2.70	
2′ 6″x7′ 0″	2.75	4.03
2′ 8″x7′ 0″	2.85	4.17
2′10″x7′ 0″	2.92	4.34
3′ 0″x7′ 0″	3.00	4.40

5 CROSS PANEL DOORS. D5.

Size.	A Quality 1⅜ in. thick.	A Quality 1¾ in. thick.
2′ 0″x6′ 0″	$2.05	
2′ 0″x6′ 6″	2.15	
2′ 2″x6′ 6″	2.29	
2′ 4″x6′ 6″	2.29	
2′ 6″x6′ 6″	2.29	
2′ 0″x6′ 8″	2.29	
2′ 2″x6′ 8″	2.34	
2′ 4″x6′ 8″	2.34	
2′ 6″x6′ 8″	2.39	
2′ 8″x6′ 8″	2.39	$3.23
2′ 8″x6′ 8″	2.75	4.11
2′10″x6′10″	2.81	
2′ 0″x7′ 0″	2.75	
2′ 2″x7′ 0″	2.80	
2′ 4″x7′ 0″	2.80	
2′ 6″x7′ 0″	2.85	4.14
2′ 8″x7′ 0″	2.95	4.28
2′10″x7′ 0″	3.02	4.45
3′ 0″x7′ 0″	3.08	4.50

SINGLE SLIDING DOORS.

LOT L. S. 20

A quality White Pine. Size 5 ft x 7 ft. x 1¾. Price, ... $7.30

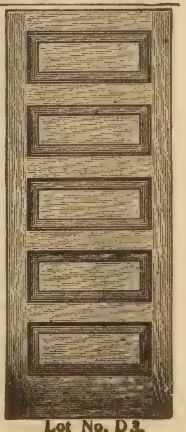
A quality white pine stiles and yellow pine panels Size 5ft.x 7 ft. x 1¾ Price, ... $7.50

BRAND NEW FIVE CROSS PANEL O. G. DOORS. Raised Panels Both Sides.

LOT D. 3
White Pine.

Size. ft.	in. ft	in.	Thick.	A Quality	B Quality	Thick	A Quality	B Quality
2-	6x6-	6	1⅜	$2.29	$2.07	1¾	$3.32	$3.01
	x6-	8	1⅜	2.40	2.18	1¾	3.48	3.16
2-	8x6-	8	1⅜	2.40	2.18	1¾	3.48	3.16
2-	6x6-10		1⅜	2.66	2.40	1¾	3.87	3.50
2-	8x6-10		1⅜	2.72	2.49	1¾	3.97	3.60
2-10x6-10			1⅜	2.81	2.56	1¾	4.12	3.74
2-	6x7-	0	1⅜	2.83	2.59	1¾	4.14	3.76
2-	8x7-	0	1⅜	2.92	2.64	1¾	4.28	3.88
2-10x7-		0	1⅜	3.03	2.75	1¾	4.45	4.03
3-	0x7-	0	1⅜	3.09	2.81	1¾	4.52	4.10
2-	6x7-	6	1⅜	3.27	2.98	1¾	4.80	4.38
2-	8x7-	6	1⅜	3.38	3.05	1¾	4.96	4.48
2-10x7-		6	1⅜	3.48	3.16	1¾	5.12	4.63
3-	0x7-	6	1⅜	3.63	3.30	1¾	5.34	4.84
	x8-	0	1⅜	4.17	3.87	1¾	6.15	5.57
	x8-	6	1⅜	4.73	4.36	1¾	6.97	6.30
	x9-	0	1⅜	5.39	4.91	1¾	7.99	7.22

Send for a copy of our Furniture Catalog.



Lot No. D3.

JOB LOT OF NEW DOORS

Lot D100. Clear Spruce Four Panel O. G. Doors, 500 2'2"x6'2", 1⅜" thickness. Each.....$1.35

Lot A4. One Door, size 2'6"x7'6", 1¾" thickness, 5 panels, No. 1 White Pine. Each.....$2.00

Lot A7. One Door, size 3'x9', 1¾" thickness, 5 panels O. G. raised, No. 2 White Pine, soiled. Each.....$2.50

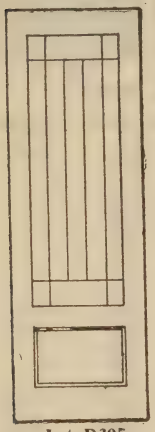
Lot A8. Ten Doors, size 2'10"x7'6", 1¾" thickness, 4 panels O. G. raised, slightly damaged by smoke, each.....$1.75

Lot A9. Three Doors, size 3'x7'6", 1¾" thickness, 4 panels O.G. raised, Veneered No. 1, each.....$2.50

1 3-8-INCH 4-PANEL O. G. DOORS RAISED PANELS BOTH SIDES.

These doors have soft pine stiles and rails and mixed oak and pine panes. Can be used any place except where oil finish is desired.

Size 2 ft. 6 in.x6 ft. 6 in.....Price each, $0.98
Size 2 ft. 8 in.x6 ft. 8 in..... " " 1.05



Lot D305.

BARGAIN LOT OF USED DOORS.

Lot A305 300 Doors, size 3'6"x10'10", 2¼" thickness, glazed, 11 lights, ⅛" ribbed glass.....Each, $3.00

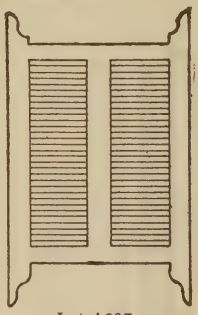
Lot A306 200 Doors, size 3'6"x12', 2¼" thickness, 11 lights, ⅛" ribbed glass. Each.....3.25

The above Doors were used only during the World's Fair period at St. Louis. Original cost is from $7.00 to $9.00 each. They can be used for outside walls or inside partitions as well. They will build you as good an office or summer home as you can erect out of new material, at less than one-third the cost.

Lot A315. Ten Doors, sfze 2'8"x8', 1¾" thickness, 4 panel O. G. W. P., each.....$1.25

Lot A316. One Door, size 2'6"x7'6", 1¾" thickness, 7 cross panels A. W. P., new door A. W. P. is soiled, each.....$1.50

Lot A307. Swinging Slat Doors for closet doors, summer doors, etc., 1500 of above and similar designs. These were used during the St. Louis World's Fair period as swinging doors. Sizes from 2'4"x4' to 3'4"x4'9", 1⅜"-1¼" slats, are in extra good condition. each.....$0.25



Lot A307.

Lot A307—100 Doors, sizes 2'7"x6'10" to 2'7"x7'10", 2¼" thickness, glazed 1 light, ⅛" ribbed glass, could be cut down to intermediate sizes.....Each, $1.75

Lot A252. Fifty Doors size 3'2"x9'2", 2¼ in. thickness, No. 15, size see cut, kind ¼" ribbed glass, Georgia Pine with Lock and Hinges, each.....$6.00

Lot A251. Ten Doors, size 2'2½"x6'11", 1⅜ in. thickness, No. 1, size 15"x38", kind clear glass, panels 3 cross below glass, Georgia Pine.....$1.75

Lot A253. Fifteen Doors, size 3'6"x7', 2¼ in. thickness, No. 4. size 14½x18½". kind clear glass, 1 large square below glass, Georgia Pine with harware, each.....$3.50

Lot A255. Five Doors, size 2'7"x8'11", 2¼ in. thickness, No. 10, size 11"x16", kind clear glass, panels See Cut No. 13, Georgia Pine complete with hardware.....$6.00

Lot A257. Seventy-five Doors, size 2'11"x8'11", 2¼ in. thickness, No. 6, size 13"x28", kind ⅛" ribbed glass, panels see cut No. 9, complete with hardware, each.....$4.00

Lot A261. Eifty Doors, size 2'8"x7', 2¼ in. thickness, No. 1, size 20"x28", kind ⅛" ribbed glass, panels 1 large square below glass, Georgia Pine, each.....4.00

Lot A263. One Doors, size 3'9"x8'9". 2 in. thickness, No. 35, size 6"x7", kind colored glass, panels 9 square below glass, Oak veneered with lock and knobs, each.....8.00

Lot A265. Fifty Doors, size 2'8"x7'3", 2¼ in. thickness. No. 1, aize 20"x32", kind ¼" ribbed glass, panels 1 large molded below, complete with hardware, each.....$4.50

Lot A272. One Hundred Doors, size 3'6"x9', 2¼ in. thickness, kind ⅛" ribbed glass, 1 square panel below, see Cut 14, each.....$5.00

Lot A267. Ten Doors, size 6'6"x16', 4 in. thickness, kind ⅛" ribbed glass, panels 2 molded below, see Cut 14, complete with hardware, each.....$12.00

Lot A573. Fifty Doors, size 3'2"x10', 2¼ in. thickness, kind ⅛" ribbed glass, 1 square panel below, painted white, complete with hardware.....8.00

Lot A274. Fifty Doors, size 3"x12', 2¼ in. thickness, kind ¼" ribbed glass, 1 square panel below, painted white, complete with hardware.....$9.00

Lot A294. Fisty Doors, 4'2"x10'8", 2¼ in. thickness, No. 10, kind ¼" ribbed glass, 1 square panel below, Georgia Pine, each.....$4.50

Lot A308. 1 Pair Front Doors, size 7'2"x9'6" or 3'7"x9'6" each x 2¼" glazed, 2 lights, bevel plate glass, ornamented wrought iron trimmings and cross rails, brass handle bars, size of glass, 32x50"x32x14" Price per pair.....$25.00

Lot A309. Four Doors, size 3'6"x7', 1⅜" thickness, glazed, 1 light 3x31", ⅛" ribbed glass, each. 3.00

Lot A310. Four Doors, size 2'11"x7', 1¾" thickness, glazed, ⅛" ribbed glass, 3 lights 28x16", 1 panel below, each.....$2.50

Lot A311. Nine Doors, size 4'2"x10'9", 2¼" thickness, glazed, ⅛" ribbed glass, 10 lights 16x16", 1 panel panel below. each.....$2.50

Lot A312. 10 Doors, size 2'6"x7', 1¾" thickness, glazed, 1 light 22x38", partly wire glass, partly ⅛" ribbed glass, design same as LSA6, each.....$2.50

Lot A313. Ten Doors, size 3'x7', 1¾" thickness, glazed, 1 light 27x38", same as Lot 000, each....$3.00

Lot 314A. Ten Pairs Double Doors, size 6x10', each door 3x10', 2¼" thickness, glazed, 6 lights 13x28", ⅛" ribbed glass, 1 square panel below, per pair.....$4.00

Lot A304. Ten Doors, size 2'8x8'9", 1¾" thickness, glazed, 4 lights 10x18", ⅛" ribbed glass, 3 cross panelss below, each.....$2.00

LIST OF USED DOORS.

Lot No.	Quantities,	Size Doors.	Thickness.		PANELS.	REMARKS.	Price Each.
A12...	12	2'x77'	1⅜	4	O. G. Raised	With Lock and Knobs	1.00
A13...	15	3'x8'6"	1⅜	4	" " "	" " " "	2.25
A14...	9	3'4"x8'	1¾	4	Moulded	P't'd white, Locks, Knobs, Hinges	2.50
A15...	8	3'4"x7'10"	1¾	4	"	P't'd white, Lock, Knobs, Hinges	2.25
A16....	5	3'x8'	1¾	4	"	P't'd white, Lock, Knobs, Hinges	2.00
A17....	1	3'x8'	1¾	6	O. G.	Damaged on edges	1.00
A18....	2	3'x7'6"	1¾	4	O. G. Raised	Georgia Pine	1.75
A19....	4	2'6"x8'	1¾	6	" "	Oak Grained Pine	1.75
A20....	6	3'2"x7'4"	1¾	6	" "	" " "	1.75
A21....	6	3'2"x7'11"	1¾	6	" "	" " "	1.90
A22....	6	3'2"x7'	1¾	6	" "	" " "	2.00
A23....	1	3'2"x6'8"	1¾	6	" "	Oak Grained Pine, Lock, Knobs.	1.75
A24....	1	3'4"x8'	1¾	6	" "	Oak Grained Pine, Lock and Knobs	2.75
A25....	1	3'2"x8'	1¾	6	" "	Oak Grained Pine, Lock and Knobs	1.75
A26....	3	2'10"x8'	1¾	6	" "	Oak Grained Pine, Lock and Knobs	1.75
A31....	1	3'2"x7'4"	1¾	6	" "	Oak Grained Pine, with Lock	2.00
A35....	1	2'8"x7'6"	1¾	4		1 Upper Panel is cracked	1.00
A37....	2	2'8"x7'6"	1¾	4	molded	Pine, with Locks and Knob	1.40
A38....	1	2'6"x8'	1¾	4	"	" " " " "	1.50
A39....	1	2'6"x8'	1¾	4	O. G. Raised	Pine, painted white	1.40
A41....	1	2'8"x8'	1¾	4	molded	Pine	1.25
A42....	2	2'10"x7'6"	1¾	4	O. G.	Pine, with Lock and Knobs	1.75
A43....	1	2'4"x8'	1¾	4	O. G. Raised	Pine, painted, with Lock and Knob	1.25
A46....	2	3'2"x8'	1¾	4	molded both sides	Pine, slightly damaged	1.25
A47....	1	3'x7'8"	1¾	5	O.G. raised both sides	Pine, with Lock and Knobs	1.50
A48....	1	2'7"x7'6"	1¾	4	molded both sides	Pine, with Lock	1.40
A51....	1	2'8"x8'	1¾	4	molded both sides	Pine	1.20
A52....	1	2'8"x8'	1¾	4	O. G. Raised sides	Pine, painted white	1.40
A53....	1	2'6"x8'	1¾	4	" " "	Pine, grained	1.60
A54....	1	2'6"x7'6"	1¾	4	" " "	Pine	1.15
A55....	1	2'8"x8'	1¾	4	molded both sides	"	1.25
A56....	1	2'6"x7'6"	1¾	4	" " "	Pine, with Lock and Knobs	1.50
A64....	12	2'4"x7'6"	1⅜	5	O.G., raised both sides	Georgia Pine, painted white	1.25
A65....	3	2'3"x7'6"	1⅜	5	" " " "	Pine, painted white	1.00
A66....	4	2'3"x8'	1¾	4 molded one side, O. G. on other side		" " "	1.40
A67....	2	2'4"x7'6"	1⅜	5 P. G. one side, O. G. other side		" " "	1.50
A68....	2	2'4"x7'6"	1¾	4	O. G. both sides	" " "	1.60
A69....	2	2'x7'6"	1⅜	5	O. G. raised both sides	" " "	1.00
A70....	2	2'4"x6'8"	1¾	4	" " " "	" " "	1.30
A72....	1	2'6"x6'11"	1¾	6	O.G., raised both sides	Pine, oak grained, Lock and Knobs	1.60
A73....	1	2'6"x7'6"	1¾	6	Cross, both sides	Georgia Pine, painted white	1.75
A75....	1	2'x6'3"	1¾	4	P. G. both sides	Oak veneered, Lock and Knobs	1.20
A76....	1	2'2"x7'	1¾	5	O. G. both sides	Oak veneered	1.40
A77....	1	2'4"x5'7"	1¾	5	molded both sides	Oak veneered, Lock and Knobs	1.00
A83....	1	3'x8'	1¾	4	molded both sides	Slightly damaged	1.00
A84....	1	2'10"x8'	1¾	4	" " "	" "	.90
A85....	1	2'8"x8'	1¾	4	" " "	Pine, with Lock and Knobs	1.60
A86....	1	2'2"x7'6"	1¾	4	" " "	" " " " "	.90
A87....	2	3'x7'	2	5 O. G. raised one side, plain on other side		Pine	2.50
A 89...	1	2'4"x7'6"	1¾	5	O. G. raised both sides	Pine, painted white	1.20
A 90...	1	2'6"x6'10"	1¾	5	cross panels	Oak, 1 panel in top part cracked	1.50
A 91...	1	2'6"x6'4"	1¾	6	molded both sides	Oak, veneered, with Lock & Knobs	1.50
A 92...	1	2'9"x8'	1¾	4	O. G. raised both sides	Pine	1.25
A 95...	1	2'6"x8'	1¾	4	O. G. raised both sides	Pine, with Lock and Knobs	1.50
A 96...	1	2'10"x8'	1¾	4	molded both sides	Pine	1.25
A 97...	2	3'6"x8'	1¾	5	O. G. raised both sides	Pine, painted	2.00
A 98...	1	2'10"x8'	1¾	4	O. G. raised both sides	Pine	1.60
A100...	1	2'6"x8'	1¾	4	O. G. raised both sides	Pine veneered, Cherry stained	1.75
A101...	3	2'6"x7'6"	1¾	4	O. G. raised both sides	Pine painted, with Lock & Knobs.	1.60
A102...	5	2'4"x7'6"	1¾	4	O. G. raised both sides	Pine, painted red	1.15
A104...	1	2'3"x7'6"	1¾	4	O. G. raised both sides	Pine painted, with Lock & Knobs.	1.30
A105...	1	2'6"x7'6"	1⅜	5	O. G. raised both sides	Pine, slightly damaged	1.10
A106...	1	2'10"x7'6"	1¾	4	molded both sides	Pine	1.25
A108...	2	3'x7'	1¾	13	panels as follows:	1 cross panel in top, 9 small 6"x6" panels below, 3 cross panels below these, Georgia pine, with hdw	2.00
A109...	1	2'10"x7'	1¾	6	Cross	Pine, with hardware	2.00
A 300..	100	2'4"x9'10"	2¼	4	Square Odd Molded		1.25
A301..	50	2'4½"x7'10"	1¾	5	Cross		1.25
A302..	2	2'5"x5'2"	1⅜	4	Cross		1.00
A303..	3	2'2"x5'2"	1⅛	4	Cross		.75

USED SLIDING DOORS.

A137..	4	3'x9'4"	3	2	large, molded Panels	Black Walnut, veneered	$16.00
A141	3	2'10"x9'6"	2¼		same as Lot A138	Black Walnut, veneered	14.00
A143.	2	3'x9'6"	3	7	molded	Slightly damaged	6.00

USED DOUBLE DOORS.

				2	plain on unt side		
A135..	2	2'6"x9'	2¾	2	fancy mol'ed on other.	Black Walnut, veneered	$10.00
A136..	4	2'6"x9'3"	2¼	2	molded on both sides.	Black Walnut, veneered	12.00
A254..	15	3'6"x7'	2¼	4	lights 13½"x18", clear	See cut 13. Comp. with hardware.	7.00
A275..	2	6'x11'7"	2¼	6	lights 18"x15", clear	3 large cross panel below Georgia pine	15.00

USED DOORS-continued

Lot No.	Num. sides.	Size.	Thickness,	Panels.	REMARKS.	Price, each
A116...	1	3′x8′	1¾	5 p. g. on both sides	" " " " "	4.00
A117...	2	2′5″x7′	1¾	5 mold. on one side, 4 mold on other side	Oak, veneered.	2.00
A119...	2	2′6″x7′6″	1¾	5 " " "	Oak veneered, with Lock & Knobs.	2.75
A120...	2	2′4″x7′6″	1¾	5 " " "	" " " " "	1.75
A121...	3	2′2″x7′	1¾	5 " " "	Oak veneered.	1.40
A122...	2	3′x8′	1¾	5 " " "	Oak veneered, with Lock & Knobs	3.00
A123...	4	2′8″x7′4″	1¾	5 O. G. raised both sides	Pine with Lock and Knobs	1.75
A124...	2	2′6″x7′6″	1¾	4 O. G. raised both sides	Pine, painted.	1.60
A125...	2	2′8″x7′6″	1¾	4 O. G. raised both sides	Pine, with Lock and Knobs.	1.90
A126...	1	2′4″x7′6″	1¾	5 O. G. raised both sides	Pine painted, with Lock & Knobs.	1.15
A129...	1	2′10″x8′	1¾	4 mold. on both sides	Pine, one panel in upper half crack	1.25
A130..	3	2′8″x7′6″	1¾	4 mold. on both sides	Pine, with Lock and Knobs.	1.40
A131..	2	2′6″x7′6″	1¾	6 molded on both sides	Pine, painted, with Lock and Knob	$1.60
A134..	1	2′4″x8′	1¾	5 O. G. raised both sides	Pine, painted.	1.50
A139..	1	3′10″x9′6″	2¼	7 molded on both sides	Oak veneered.	5.00
A146 .	25	2′4″x7′6″	1¾	5 O. G. raised	Pine, with Lock, Knob and Hinges.	1.40
A147. .	19	2′6′x7′6″	1¾	5 O. G. raised both sides	Pine, with Lock and Knobs.	1.60
A148...	10	2′8″x7′6″	1¾	5 " " " "	Pine, grained, with Lock and Knob	1.75
A149...	5	2′10″x7′6″	1¾	5 " " " "	Pine, with Lock and Knobs.	2.00
A150...	1	2′10″x7′	1¾	5 " " " "	Pine, grained,with Lock and Knobs	2.00
A151...	2	2′8″x7′1″	1¾	5 " " " "	Pine, with Lock and Knobs.	1.80
A152...	4	2′4″x7′	1¾	5 " " " "	Pine, grained,with Lock and Knobs	1.20
A153...	1	2′2″x7′	1¾	5 " " " "	" " " " "	1.00
A154...	7	2′10″x7′6″	1¾	5 " " " "	Pine, painted, with Lock & Knobs .	1.75
A155...	3	2′10″x8″	1¾	5 " " " "	Pine, grained,with Lock and Knobs	2.00
A156...	6	2′8″x7′6″	1¾	4 " " " "	Pine, painted, with Lock and Knob.	1.60
A157...	2	2′8″x7′6″	1¾	5 " " " "	Pine, grained,with Lock and Knobs	2.00
A158...	4	2′6″x7′6″	1¾	5 " " " "	Pine, painted,with Lock & Knobs. .	1.75
A159...	8	2′6″x7′6″	1¾	4 " " " "	" " " " " "	1.50
A160...	2	3′x7′6″	1¾	4 molded on both sides	Pine grained,with Lock and Knobs.	1.50
A161...	2	3′x7′6″	1¾	5 " " " "	Pine, Cherry stained, Lock, Knobs	2.50
A162...	1	3′x7′4″	1¾	4 O. G. raised both sides	Pine, slightly damaged.	.125
A163...	2	2′10″x8′	1¾	4 " " " "	" " " "	1.00
A164...	1	2′10″x8′6″	1¾	5 " " " "	Pine, with Lock and Knobs.	2.00
A165...	2	2′8″x8′	1¾	4 molded on both sides	Pine, painted.	1.90
A166...	2	3′x7′	2	6 " " " "	Pine, painted, with Lock & Knobs.	2.50
A167...	1	2′6″x8′	1¾	4 O. G. raised both sides	Pine, with Lock & Knobs (damg'd)	1.40
A168...	2	2′6″x8′	1¾	5 " " " "	Pine, with Lock and Knobs.	2.25
A169...	3	2′8″x8′	1¾	5 " " " "	Pine, painted, with Lock & Knobs .	2.00
A171...	9	2′4″x8′	1¾	5 " " " "	Pine, Oak grained, Lock & Knobs.	1.60
A172...	1	2′4″x8′	1¾	4 molded both sides	Pine, with Lock and Knobs.	1.00
A173...	1	2′6″x7′6″	1¾	5 O. G. raised both sides	Pine, with Lock.	1.20
A174...	2	2′4″x8′	1¾	5 molded one side, O. G. raised other side	Pine, painted, with Lock & Knobs .	1.50
A176...	7	2′8″x7′6″	1¾	6 molded on both sides	Pine.	1.25
A177...	14	2′8″x7′6″	1¾	5 " " " "	Pine, with Lock and Knobs.	1.40
A178...	29	2′6″x7′6″	1¾	5 " " " "	" " " " "	1.35
A179...	10	2′6″x7′6″	1¾	6 " " " "	Pine, painted, with Lock & Knobs .	1.30
A180...	6	2′2″x7′6″	1¾	5 " " " "	Pine, with Lock and Knobs.	1.00
A182...	1	3′x8′	1¾	5 " " " "	Pine, Cherry stained, with Lock and Knobs.	2.50
A183...	2	3′x8′6″	1¾	5 " " " "	do	3.00
A184...	7	3′x7′6″	1¾	5 " " " "	do	2.25
A185...	2	2′8″x7′6″	1¾	5 molded one side, O. G. on the other side	Pine, Cherry stained, with Lock and Knobs.	2.00
A186...	2	2′10″x7′6″	1¾	do	do	2.40
A187...	2	2′8″x8′6″	1¾	5 molded on both sides	Pine, Cherry stained.	2.75
A188...	2	2′4″x8′	1¾	5 molded on one side, O. G. raised on other	Pine, with Lock and Knobs.	1.50
A189...	2	2′x8′	1¾	5 O. G. raised on one	Pine.	1.00
A191...	2	2′x7′1″	1¾	do	Pine, damaged slightly on edges.	1.00
A192...	1	2′10″x7′1″	1¾	5 O. G. raised both sides	Pine, grained, with Lock & Knobs .	2.00
A193...	11	3′x7′6″	1¾	5 " " " "	Pine, painted, with Lock & Knobs .	1.40
A194...	5	2′4″x7′	1¾	5 " " " "	Pine, Walnut stained, with Lock and Knobs.	1.75
A195...	4	3′x7′	1¾	5 " " " "	do	1.80
A196...	1	3′x7′4″	1¾	5 " " " "	Pine, grained, with Lock & Knobs .	1.50
A197...	1	3′x6′9″	1¾	5 " " " "	" " " " " "	1.60
A198...	8	2′8″x7′6″	1¾	5 " " " "	" " " " " "	1.00
A199...	2	2′4″x7′6″	1¾	5 " " " "		
A200...	2	2′10″x6′10″	1¾	2 Panels, made out of		
A203...	4	3′x7′	1¾	4 O. G. raised both sides	Georgia Pine, painted.	1.50
A204...	1	2′8″x6′9″	1¾	4 " " " "	Georgia Pine.	1.25
A205...	1	2′8″x7′1″	1¾	4 molded on both sides	Pine.	1.40
A206...	1	2′10″x5′10″	1¾	4 O. G. raised both sides	Georgia Pine.	1.50
A207...	6	2′8″x7′	1¾	4 " " " "	Pine. painted, with Lock & Knobs .	1.40
A208...	7	2′10″x7′	1¾	4 " " " "	Pine, with Lock and Knobs.	1.60
A209...	50	3′x7′6″	1¾	4 " " " "	Pine, painted white, complete with Hardware.	2.00
A210...	3	2′10″x7′	1¾	4 " " " "	Pine, with Lock and Knobs.	1.50
A211...	1	2′x5′6″	1¾	2 large O. G. on both sides	Pine.	.80
A212...	2	2′4″x6′6″	1¾	4 O. G. raised both sides	Pine, painted.	.90
A213...	2	2′x5′4″	1¾	4 " " " "	Pine, grained, with Lock and Knobs	1.00
A214...	1	2′4″x6′8″	1¾	4 " " " "	Pine, slightly damaged on edges.	.80
A215...	1	2′x7′	1¾	5 " " " "	Pine, painted, with Lock & Knobs .	1.00
A216 .	1	2′4″x7′	1¾	4 " " " "	Pine, with Lock and Knobs.	1.10
A217...	4	2′2″x7′	1¾	5 " " " "	" " " " " "	1.35
A218...	10	2′4″x7′	1¾	5 " " " "	Pine, grained, with Lock & Knobs.	1.40

USED SLIDING DOORS.

Lot No.	Quan. pairs	Size of single door	Thick ness, Inches	PANELS on each door	REMARKS.	Price, per pair
A137...	4	3′x9′4″	3	2 large, molded	Black Walnut, veneered.	$16.00
A141...	3	2′10″x9′6″	2¾	Panels same as Lot A138	Black Walnut, veneered.	14.00
A142...	1	3′4″x9′2″	3	5 odd shaped, Molded	This pair doors is damaged, but can be used again.	4.00
A143...	2	3′x9′6″	3	7 molded	Slightly damaged.	6.00
A144...	1	2′10″x8′6″	2¼	5 O. G. raised both sides	Pine, Oak grained.	5.00
A286...	3	2′7″x8′6″	2¼	5 " " " "	Pine, Oak grained.	4.00
A258a..	2	3′x8′6″	2¼	5 " " " "	Pine, Oak grained.	5.00
				GLAZED		
A219...	1	3′x9′	2¼	4, 14½″x32½″ clearlight D. S. lights	2 O. G. raised Panels below sash, Pine, Cherry stained.	8.00

Lot No.	Quan tities.	Size.	Thick ness.	Glass	No. lights	Kind of glass.	PANELS	Price.
A259.	30	5′2″x10′	2	14″x16″	6	⅛″ ribbed	1 large square on one side. Made out of wainscoating. See cut No. 13.	$6.00
A268.	1	2′8″x8′	1⅜	24″x42″	1		2 cross panels below. Georgia pine.	8.00

USED DOUBLE DOORS.

Lot No.	Quan. pairs	Size of single door	Thick ness.	PANELS on each	REMARKS.	Price per pair.
A27....	1	2′10″x8′4″	1¾	6 O. G. raised.	Pine, Oak grained, Lock and Knobs.	5.00
A28....	3	2′8″x7′	1¾	" " "	" " " "	2.00
A29....	1	3′4″x7′4″	1¼	4 Cross.	Cherry veneered, complete with Hardware.	8.00
A133...	1	2′6″x9″	2½	5 O. G. raised.	Pine with Lock and Knobs.	6.00
A135...	2	2′6″x9′	2¾	2 plain on one side 2 fancy molded on other.	Black Wallnut veneered.	10.00
A136...	4	2′6″x9′3″	2¼	2 molded on both sides.	Black Walnut veneered.	12.00
A170...	1	2′6″x8′6″	2¼	5 O. G. raised.	Oak grain.	6.00
A181...	1	2′8″x8′6″	1¾	5 molded on both sides.	Pine, Cherry stained complete with Hardware.	5.00
A241...	1	2′6″x6′6″	1¾	2 molded one side O. G. panels other side	Pine.	2.50
				GLAZED.		
A175...	3	2′5″x7′11″	2¾	1, 16″x66″ Floral fancy D. S. glazed light	2 molded Panels below glass, black Walnut, veneered both sides.	14.00
A220...	5	2′7″x8′7″	2⅛	1, 18″x66″ light Plate glass, fancy Floral design, Circle top	1 square molded Panel below glass. Black Walnut, veneered.	15.00
A175...	3	2′5x7′11″	2¾	1 16″x66″ Floral fancy D. S. glazed lights.	2 molded panels below glass Black Walnut veneered both sides.	14.00
A220...	5	2′7″x8′7″	2⅛	1 18″x77″ light plate glass fancy Floral design circle tap.	1 square molded panel below glass. Black walnut veneered	15.00
A254..	15	3′6″x7′	2¼	4 lights 14½″x18½″, clear	See cut 13. Complete with hardware.	7.00
A266..	20	2′6″x7′6″	2¼	1 light 19″x32″ ⅛ ribbed	2 molded below. See cut 4	7.00
A269..	3	2′6″x7′	1¾	2 light 20″x24″, clear	1 square panel below, Ga. pine	5.00
A275..	4	6′x11′7″	2¼	6 lights 18″x15″, clear	3 large cross panels below Georgia pine	15.00

JOB OF NEW DOORS.

Lot No.	Quan tities	Size.	Thick ness,	PANELS	REMARKS.	Price, each.
A1.....	500	2′6″x6′6″	1⅜	4 O. G. raised	These have about the only defect that they are not free from knots. Makes a good door for ordinary use.	$1.20
A2.....	500	2′8″x6′8″	1⅜	4 " "		2.35
A3.....	3	2′8″x8′	1¾	4 " "	Slightly damaged by smoke.	1.75
A4.....	1	2′6″x7′6″	1¾	5 " "	No. 1 White Pine.	2.00
A5.....	15	2′10″x8′	1¾	4 " "	Slightly damaged by smoke.	1.75
A6.....	1	2′2″x8′	1¾	6 Cross	No. 2 White Pine.	1 60
A7.....	1	3′x9′	1¾	5 O. G. raised	No. 2 White Pine, soiled.	2.50
A8.....	10	2′10″x7′6″	1¾	4 " "	Slightly damaged by smoke.	1.75
A9.....	3	3′x7′6″	1¾	4 " "	Veneered, No. 1.	2.50

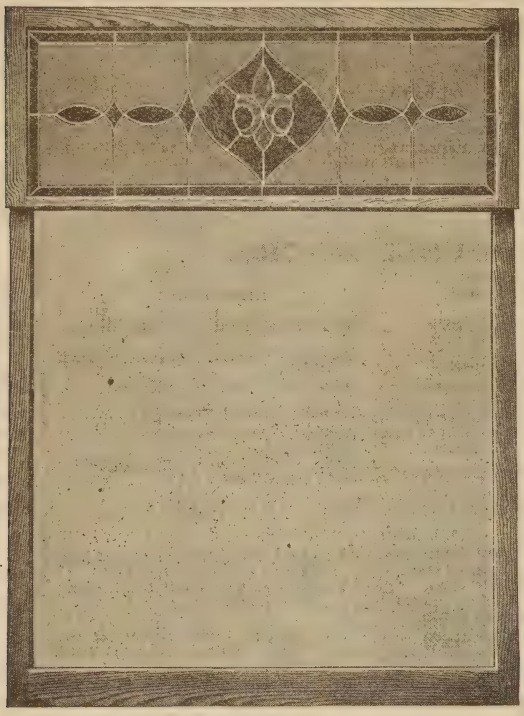
USED SASH DOORS---Unglazed.

Lot No.	Quan tities	Size.	Thick ness.	No.	Glass, size.	PANEL	Kind of glass.	REMARKS	Price.
A59.	1	2′6″x8′	2⅛	1	20″x56″	2 panels below glass	.....	Pine.	$1.50
A60.	1	2′6″x8′	2¼	1	22″x50″	1 square panel	.....	Pine.	1.50
A61.	1	3′x6′9″	2	1	27″x60″	1 cross panel	.....	Pine.	1.75
A62.	1	2′6″x6′6″	1⅜	1	21″x38″	2 O. G. panels	.....	Pine.	1.50
A63.	1	3′6′x7′6″	2¼	1	36″x50″	1 cross panel	.....	Pine, with Lock & Knobs.	3.00
						GLAZED.			
A30.	1	3′x8′	1¾	3	8″x60″	3 O. G. raised	Sanded glass	Pine, Oak grained.	$3.00
A99.	1	2′10″x7′6″	1¾	1	20″x14″	3 Cross	Clear plate glass	Oak.	5.00

GLAZED SWINGING DOORS

A262...	1	3′7″x9′6″	2¼	1	32″x14″	2 light in all	6 sq. panels	Brass handle	
				1	32″x50″	bev. plate glass	below glass	bars.	$25.00

ARTISTIC FRONT WINDOWS



RUBY

Top Sash, Glazed, Leaded Colored Art. Bottom Sash, Glazed, Selected D. S. Glass.

EMBLEM

BEAUTIFUL COMBINATIONS SPLENDID VALUES

PRICES OF RUBY.

Outside Measure.	Glass Size Bottom Sash.	Glass Size, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	**$6.25**
3′8″x5′ 6″	40x46	40x14	**6.45**
4′ x5′ 2″	44x40	44x16	**7.20**
4′ x5′ 6″	44x44	44x16	**7.95**
4′ x5′10″	44x48	44x16	**8.25**

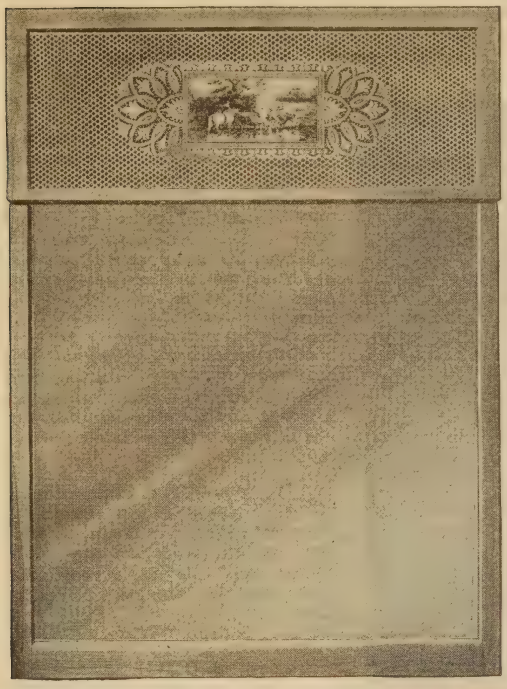
PRICES OF EMBLEM.

Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	**$6.35**
3′8″x5′ 6″	40x46	40x14	**6.55**
4′ x5′ 2″	44x40	44x16	**7.30**
4′ x5′ 6″	44x44	44x16	**8.05**
4′ x5′10″	44x48	44x16	**8.35**

All our front cottage windows are durably constructed, and contain the best of glass in their respective kinds and grades. The price named for both the "Ruby" and "Emblem" designs covers the entire window complete, one bottom sash and one top sash. The bottom sash contains clear double strength A quality glass, and the top sash leaded, colored art.

For the "Emblem" design we show the top glass only, but the price as stated, covers one complete window. The coloring of the glass has been selected very carefully, Ruby and Wine color predominating, presenting a soft and pleasing effect.

ARTISTIC FRONT WINDOWS.



YELLOWSTONE

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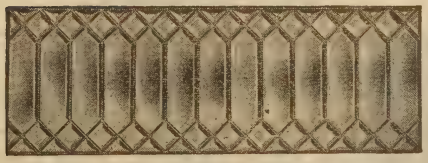
BRUSSELS ART



ARISTOCRAT

(Glazed, Leaded Beveled Plate.)

Here are some Beauties. The variety of glass designs offered should appeal to the most artistic eye, regardless of the price. Our prices are practically the lowest for the same quality of material offered. The price named for the different designs cover one complete window, the bottom sash glazed with double strength A quality, top sash as illustrated. Both the "Yellowtone" and "Brussels Art" designs are neat and pretty lace patterns—ingeniously worked out to the minutest detail. A true example of the lace makers' wonderful art.

In our "Aristocrat" design we offer something decidedly out of the ordinary, of strictly high value, unsurpassed workmanship. Each diamond light and each suspended light is a separate beveled plate glass in itself, of true crystal-like clearness and makes an artistic appearance.

Please note, while we show the design of glass only in our "Aristocrat" and "Brussels Art" window, the price covers one complete window bottom and top sash; the bottom sash containing clear double strength "A" glass.

PRICES OF YELLOWSTONE

Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	$4.95
3′8″x5′ 6″	40x46	40x14	5.10
4′ x5′ 2″	44x40	44x16	5.30
4′ x5′ 6″	44x44	44x16	5.56
4′ x5′10″	44x48	44x16	6.40

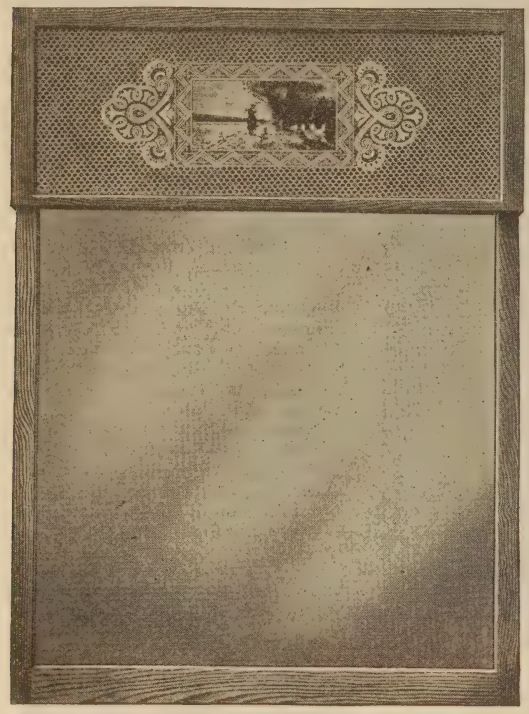
BRUSSELS ART.
Same price as Yellowstone.

PRICES OF ARISTOCRAT.

Outside Measure.	Glass Size, Bottom Sash.	Outside Measure, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	$9.00
3′8″x5′ 6″	40x46	40x14	10.00
4′ x5′ 2″	44x40	44x16	11.10
4′ x5′ 6″	44x44	44x16	11.60
4′ x5′10″	44x48	54x16	12.25

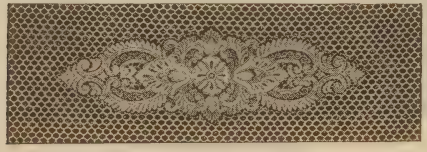
ARTISTIC FRONT WINDOWS

Here we show a variety of artistic and handsome front window designs, the very best of their kind in quality, durability, and workmanship. The price named for the different designs cover one complete window, the bottom sash glazed with double strength A glass, the top sash as illustrated. Both the "Dairy Maid" design and "Mexican Art" design are neat and pretty lace patterns ingeniously worked out to the minutest detail. A true example of the lace maker's wonderful art.



FAIRVIEW

Top Sash, Glazed, with Portrait Lace Design No. G-13, Bottom Sash, Glazed Selected D. S. Glass.



MEXICAN ART

CRYSTAL

Glazed, Leaded, Clear Crystal Sheet.

Our "Crystal" design is worked out on the same principle as our high priced "Aristocrat" window. Contains the same high grade workmanship, with the exception that the glass is of crystal clearness, double strength instead of beveled plate. This design has proven a great popular seller, as it practically has the same effect as some of the higher priced designs now on the market.

Each separate diamond and suspended light is carefully worked out by itself, and the whole forms a strong and durable combination, of the Leaded Glass Maker's workshop.

Please note, that while we show "Crystal" design of top glass only, the price covers one complete window, bottom sash and top sash, bottom sash being glazed with clear, double strength A qality glass.

FAIRVIEW.

Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	**$4.95**
3′8″x5′ 6″	40x46	40x14	**5.10**
4′ x5′ 2″	44x40	44x16	**5.30**
4′ x5′ 6″	44x44	44x16	**5.56**
4′ x5′10″	44x48	44x16	**6.40**

MEXICAN ART.

Same price as Dairymaid.

CRYSTAL.

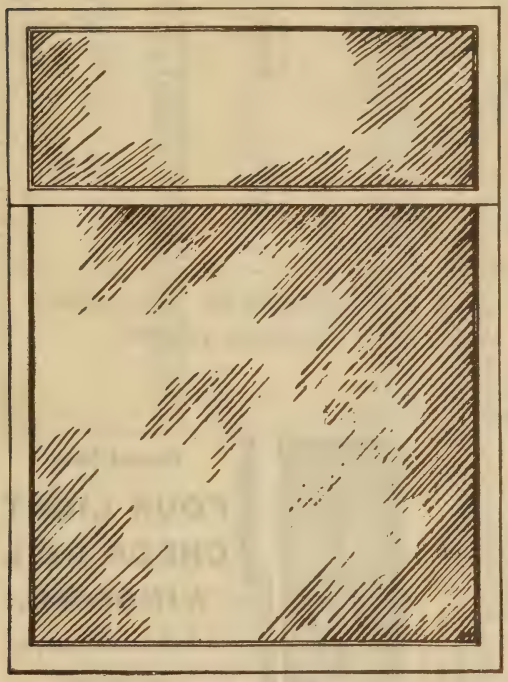
Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window.
3′8″x5′ 2″	40x42	40x14	**$5.00**
3′8″x5′ 6″	40x46	40x14	**5.25**
4′ x5′ 2″	44x40	44x16	**6.00**
4′ x5′ 6″	44x44	44x16	**6.15**
′ x5′10″4	44x48	44x16	**6.90**

COTTAGE FRONT WINDOWS

Check Rail, $1\frac{3}{8}$ Inches Thick

Our "Plainview" design is properly named, because it affords a clear and plain view over the entire window. Both top and bottom sash on all windows contained on this page are glazed with clear, double strength A quality glass.

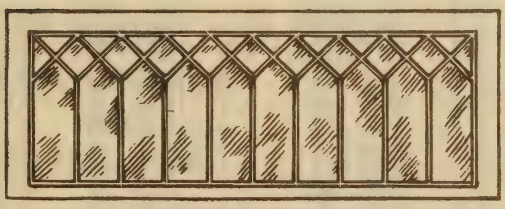
Our "Woodstock" and "Old Favorite" designs presents the same view as our "Aristocratic" design, with the exception that the top sash contains wood bars instead of lead bars.



PLAINVIEW

PRICES OF PLAINVIEW.

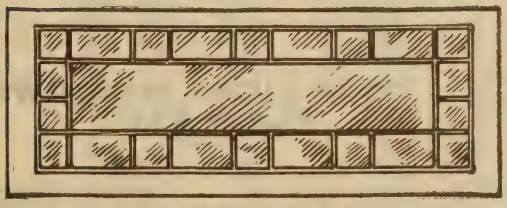
Outside Measure.	Glass Size, Bottom Sash.	Glass Size Top Sash.	Price for Both.
3′ 8″x5′ 2″	40x16	40x40	$3.25
5′ 6″	16	44	3.60
5′10″	16	48	3.80
6′ 2″	18	50	4.00
3′10″x5′ 2″	42x16	42x40	3.70
5′ 6″	16	44	4.00
5′10″	16	48	4.05
6′ 2″	20	48	4.35
4′ 0″x5′ 2″	44x16	44x40	3.95
5′ 6″	16	44	4.25
5′10″	18	46	4.40
6′ 2″	18	50	5.25
6′ 6″	22	50	5.50
4′ 4″x5′ 2″	48x16	48x40	4.40
5′ 6″	18	42	4.70
5′10″	18	46	5.45
6′ 2″	18	50	6.05
4′ 6″x5′ 2″	50x16	50x40	4.60
5′ 6″	16	44	5.50
5′10″	16	48	6.05
4′ 6″x6′ 2″	50x18	50x50	6.25
6′ 6″	22	50	6.50
4′ 8″x5′ 2″	52x16	52x40	5.40
5′ 6″	18	42	5.75
5′10″	18	46	6.30
6′ 2″	20	48	6.60
5′ 0″x5′ 6″	56x16	56x44	6.95
5′10″	16	48	6.55
6′ 2″	20	48	6.90



WOODSTOCK

PRICES OF WOODSTOCK.

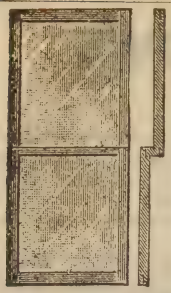
Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window
3′8″x5′ 2″	40x42	40x14	$7.75
3′8″x5′ 6″	40x46	40x14	8.20
4′ x5′ 2″	44x40	44x16	8.60
4′ x5′ 6″	44x44	44x16	9.00
4′ x5′10″	44x48	44x16	9.20



OLD FAVORITE

PRICES OF OLD FAVORITE.

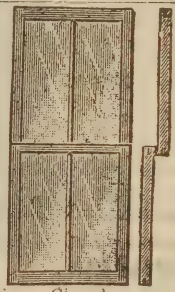
Outside Measure.	Glass Size, Bottom Sash.	Glass Size, Top Sash.	Price per Window
3′8″x5′ 2″	40x42	40x14	$5.00
3′8″x5′ 6″	40x46	40x14	5.45
4′ x5′ 2″	44x40	44x16	5.85
4′ x5′ 6″	44x44	44x16	6.25
4′ x5′10″	44x48	44x16	6.45



Brand New
TWO LIGHT CHECK RAIL WINDOWS.
1 3-8 Inches Thick.

Lot No. 195.

Size of Glass.	Price per Window. Glazed Single Strength	Glazed Double Strength	Size of Window
16″x16″	$0.63	$0.78	1′ 8⅛″x3′ 2″
16″x18″	.65	.81	3′ 6″
16″x20″	.69	.89	3′10″
16″x24″	.74	.99	4′ 6″
16″x26″	.86	1.14	4′10″
16″x28″	.87	1.22	5′ 2″
16″x30″	.90	1.28	5′ 6″
16″x32″	.95	1.35	5′10″
16″x34″	1.07	1.45	6′ 2″
16″x36″	1.11	1.49	6′ 6″
18″x18″	.70	.91	1′10⅛″x3′ 6″
18″x20″	.74	.97	3′10″
18″x22″	.81	1.09	4′ 2″
18″x24″	.82	1.13	4′ 6″
18″x26″	.88	1.19	4′10″
18″x28″	.91	1.32	5′ 2″
18″x30″	.93	1.34	5′ 6″
18″x32″	.99	1.42	5′10″
18″x34″	1.14	1.56	6′ 2″
18″x36″	1.22	1.67	6′ 6″
20″x20″	.81	1.09	2′ ⅛″x3′10″
20″x22″	.85	1.11	4′ 2″
20″x24″	.86	1.12	4′ 6″
20″x26″	.90	1.18	4′10″
20″x28″	.96	1.25	5′ 2″
20″x30″	1.02	1.34	5′ 6″
20″x32″	1.12	1.48	5′10″
20″x34″	1.20	1.58	6′ 2″
20″x36″	1.28	1.66	6′ 6″
20″x38″	1.43	1.85	6′10″
20″x40″	1.47	1.91	7′ 2″
22″x22″	.89	1.18	2′ 2⅛″x4′ 2″
22″x24″	.90	1.20	4′ 6″
22″x26″	.95	1.25	4′10″
22″x28″	1.01	1.33	5′ 2″
22″x30″	1.11	1.47	5′ 6″
22″x32″	1.20	1.59	5′10″
22″x34″	1.34	1.74	6′ 2″
22″x36″	1.37	1.88	6′ 6″
22″x38″	1.54	2.00	6′10″
22″x40″	1.72	2.22	7′ 2″
24″x20″	.91	1.24	2′ 4⅛″x3′10″
24″x22″	.95	1.30	4′ 2″
24″x24″	.99	1.31	4′ 6″
24″x26″	1.00	1.33	4′10″
24″x28″	1.10	1.46	5′ 2″
24″x30″	1.19	1.58	5′ 6″
24″x32″	1.26	1.64	5′10″
24″x34″	1.37	1.79	6′ 2″
24″x36″	1.39	1.80	6′ 6″
24″x38″	1.72	2.21	6′10″
24″x40″	1.73	2.23	7′ 2″
26″x22″	1.02	1.40	2′ 6⅛″x4′ 2″
26″x24″	1.07	1.47	4′ 6″
26″x26″	1.15	1.54	4′10″
26″x28″	1.30	1.69	5′ 2″
26″x30″	1.34	1.76	5′ 6″
26″x32″	1.36	1.78	5′10″
26″x34″	1.61	2.08	6′ 2″
26″x36″	1.62	2.10	6′ 6″
26″x38″	1.79	2.34	6′10″
26″x40″	1.80	2.35	7′ 2″
28″x28″	1.34	1.76	2′ 8⅛″x5′ 2″
28″x30″	1.35	1.78	5′ 6″
28″x32″	1.59	2.07	5′10″
28″x34″	1.69	2.20	6′ 2″
28″x36″	1.78	2.33	6′ 6″
28″x38″	1.80	2.35	6′10″
28″x40″	1.83	2.38	7′ 2″
30″x24″	1.30	1.80	2′10⅛″x4′ 6″
30″x26″	1.45	1.98	4′10″
30″x28″	1.46	1.99	5′ 2″
30″x30″	1.69	2.30	5′ 6″
30″x32″	1.76	2.31	5′10″
30″x34″	1.80	2.33	6′ 2″
30″x36″	1.79	2.34	6′ 6″
30″x38″	1.78	2.36	6′10″
30″x40″	1.80	2.38	7′ 2″
32″x24″	1.48	1.88	3′ ⅛″x4′ 6″
32″x26″	1.57	2.02	4′10″
32″x28″	1.80	2.31	5′ 2″
32″x30″	2.06	2.66	5′ 6″
32″x32″		2.67	5′10″
32″x34″		2 68	6′ 2″
32″x36″		3.04	6′ 6″
32″x38″		3.28	6′10″
32″x40″		$3.52	7′ 2″
34″x24″	1.68	2.14	3′ 2⅛″x4′ 6″
34″x26″	1.90	2.43	4′10″
34″x28″	1.91	2.44	5′ 2″
34″x30″	2.08	2.68	5′ 6″
34″x32″		2.69	5′10″
34″x34″		3.05	6′ 2″
34″x36″		3.28	6′ 6″
34″x38″		3.31	6′10″
34″x40″		3.54	7′ 2″
36″x24″	1.81	2.28	3′ 4⅛″x4′ 6″
36″x26″	2.05	2.57	4′10″
36″x28″	2.22	2.83	5′ 2″
36″x30″	2.23	2.84	5′ 6″
36″x32″		3.16	5′10″
36″x34″		3.40	6′ 2″
36″x36″		3.42	6′ 6″
36″x38″		4.19	6′10″
36″x40″		4.20	7′ 2″
40″x24″		2.65	3′ 8⅛″x4′ 6″
40″x26″		2.89	4′10″
40″x28″		2.92	5′ 2″
40″x30″		3.23	5′ 6″
40″x32″		3.45	5′10″
40″x34″		3.49	6′ 2″
40″x36″		4.26	6′ 6″
40″x38″		4.28	6′10″
40″x40″		4.29	7′ 2″



Brand New
FOUR LIGHT CHECK RAIL WINDOWS.
1 3-8 Inch Thick.

Lot No. 190.

Size of Glass	Glazed Single Strength	Size of Window
10x20″	$0.70	2′ 1″x3′10″
10x22″	.78	4′ 2″
10x24″	.80	4′ 6″
10x26″	.89	4′10″
10x28″	.94	5′ 2″
10x30″	1.05	5′ 6″
10x32″	1.15	5′10″
10x34″	1.29	6′ 2″
10x36″	1.34	6′ 6″
12x20″	.78	2′ 5″x3′10″
12x22″	.89	4′ 2″
12x24″	.95	4′ 6″
12x26″	1.01	4′10″
12x28″	1.06	5′ 2″
12x30″	1.18	5′ 6″
12x32″	1.23	5′10″
12x34″	1.36	6′ 2″
12x36″	1.37	6′ 6″
12x38″	1.52	6′10″

Size of Glass	Glazed Single Strength	Size of Window
12x40″	$1.64	7′ 2″
14x20″	.96	2′ 9″x3′10″
14x22″	1.04	4′ 2″
14x24″	1.06	4′ 6″
14x26″	1.18	4′10″
14x28″	1.22	5′ 2″
14x30″	1.33	5′ 6″
14x32″	1.40	5′10″
14x34″	1.56	6′ 2″
14x36″	1.57	6′ 6″
14x38″	1.79	6′10″
14x40″	1.81	7′ 2″
15x24″	1.23	2′11″x4′ 6″
15x28″	1.40	5′ 2″
15x30″	1.47	5′ 6″
15x32″	1.55	5′10″
15x34″	1.73	6′ 2″
15x36″	1.87	6′ 6″

FOUR LIGHT WINDOWS PLAIN RAIL.

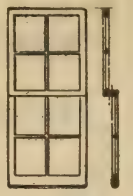
Lot 1190.

Size of Glass.	Thick-ness.	Price per Window Glazed	Size of Window
12″x20″	1⅛″	$0.70	2′ 5″x3′10″
24″	1⅛″	.85	4′6″
26″	1⅛″	.91	4′10″
28″	1⅛″	.95	5′ 2″

EIGHT LIGHT WINDOWS.

Check Rail.

Lot No. 191.



Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window
8″x10″	1⅜″	$0.65	1′ 9″x3′ 9½″
8″x12″	1⅜″	.72	5′ 2 ″
9″x12″	1⅜″	.77	1′11″x4′ 6 ″
14″	1⅜″	.87	5′ 2 ″
10″x12″	1⅜″	.79	2′ 1″x4′ 6 ″
14″	1⅜″	.88	5′ 2 ″
16″	1⅜″	1.03	5′10 ″
18″	1⅜″	1.24	6′ 6 ″
12″x14″	1⅜″	1.03	2′ 5″x5′ 2 ″
16″	1⅜″	1.14	5′10 ″
18″	1⅜″	1.26	6′ 6 ″
20″	1⅜″	1.54	7′ 2 ″
14″x16″	1⅜″	1.36	2′ 9″x5′10 ″
18″	1⅜″	1.48	2′ 9″x6′ 6 ″
20″	1⅜″	1.64	7′ 2″

8 LIGHT WINDOWS.

Plain Rail.

Lot 1191.

Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window.
8″x10″	1⅛″	$0.57	1′ 8½″x3′ 9½″
12″	1⅛″	.68	4′ 6 ″
14″	1⅛″	.80	5′ 2 ″
9x″12″	1⅛″	.71	1′10½″x4′ 6 ″
14″	1⅛″	.81	5′ 2 ″
10″x12″	1⅛″	.75	2′ 0½″x4′ 6 ″
14″	1⅛″	.84	5′ 2 ″
16″	1⅛″	.97	5′10 ″
18″	1⅛″	1.12	6′ 6 ″
20″	1⅛″	1.32	7′ 2 ″
12″x14″	1⅛″	.98	2′ 4½″x5′ 2 ″
16″	1⅛″	1.10	5′10 ″
18″	1⅛″	1.25	6′ 6 ″
20″	1⅛″	1.50	7′ 2 ″
14″x16″	1⅛″	1.32	2′ 8½″x5′10 ″
18″	1⅛″	1.44	6′ 6 ″
20″	1⅛″	1.60	7′ 2 ″

TWELVE LIGHT CHECK RAIL WINDOWS.

LOT 192.

Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window.
8″x10″	1⅜″	$0.79	2′ 4½″x3′10″
12″	1⅜″	.96	4′ 6″
14″	1⅜″	1.13	5′ 2″
9″x12″	1⅜″	1.01	2′ 7½″x4′ 6″
14″	1⅜″	1.18	5′ 2″
16″	1⅜″	1.39	5′10″
10″x12″	1⅜″	1.09	2′10½″x4′ 6″
14″	1⅜″	1.21	5′ 2″
16″	1⅜″	1.41	5′10″
18″	1⅜″	1.61	6′ 6″
20″	1⅜″	1.85	7′ 2″
12″x14″	1⅜″	1.61	3′ 4½″x5′ 2″
16″	1⅜″	1.76	5′10″
18″	1⅜″	1.93	6′ 6″
20″	1⅜″	2.15	7′ 2″

12 LIGHT WINDOWS.

Plain Rail.

Lot 1192.

Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window.
7″x 9″	1⅛″	$0.71	2′ 1″x3′ 5½″
8″x10″	1⅛″	.75	2′ 4″x3′ 9½″
12″	1⅛″	.87	4′ 6 ″
14″	1⅛″	1.07	5′ 2 ″
15″	1⅛″	1.19	5′ 6 ″
9″x12″	1⅛″	.95	2′ 7″x4′ 6 ″
14″	1⅛″	1.12	5′ 2 ″
15″	1⅛″	1.19	5′ 6 ″
16″	1⅛″	1.25	5′10 ″
10″x12″	1⅛″	1.03	2′10″x4′ 6 ″
14″	1⅛″	1.15	5′ 2 ″
15″	1⅛″	1.29	5′ 6 ″
16″	1⅛″	1.34	5′10 ″
18″	1⅛″	1.54	6′ 6 ″
20″	1⅛″	1.77	7′ 2 ″
12″x14″	1⅛″	1.53	3′ 4″x5′ 2 ″
16″	1⅛″	1.68	5′10 ″
18″	1⅛″	1.83	6′ 6 ″
20″	1⅛″	2.09	7′ 2 ″

15 LIGHT WINDOWS.

Plain Rail

LOT 1193.

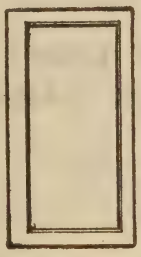
Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window
8″x10″	1⅛″	$0.93	2′ 4″x4′ 7½″
10″x12″	1⅛″	1.30	2′10″x5′ 6 ″

18 LIGHT WINDOWS

Plain Rail.

Lot 1193.

Size of Glass.	Thick-ness.	Price per Window Glazed.	Size of Window
8″x10″	1⅛″	$1.12	2′ 4″x5′ 5½″
10″x12″	1⅛″	1.55	2′10″x6′ 6 ″

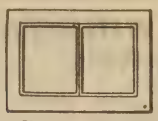


TRANSOM SASH

One Light.

Lot 205.

Size of Glass	Thick-ness.	Price 1 Light
2′ 6″x10″	1⅜″	$0.36
12″	1⅜″	.41
14″	1⅜″	.43
16″	1⅜″	.47
18″	1⅜″	.53
20″	1⅜″	.62
2′ 8″x10″	1⅜″	.38
12″	1⅜″	.43
14″	1⅜″	.45
16″	1⅜″	.49
18″	1⅜″	.56
20″	1⅜″	.63
2′10″x10″	1⅜″	.46
12″	1⅜″	.46
14″	1⅜″	.46
16″	1⅜″	.54
18″	1⅜″	.59
20″	1⅜″	.65
3′ 0″x12″	1⅜″	.63
14″	1⅜″	.53
16″	1⅜″	.58
18″	1⅜″	.65
20″	1⅜″	.71



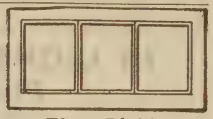
Two Lights.

CELLAR SASH. Two Lights

Lot 193.

Size of Glass	Thickness.	Price Single Glazed.	Price Double Glazed.	Size of Sash.
10″x12″	1⅜″	$0.38	$0.61	2′1″x16″
14″	1⅜″	.40	.62	18″
16″	1⅜″	.46	.73	20″
18″	1⅜″	.52	.81	22″
20″	1⅜″	.64	1.01	24″
12″x12″	1⅜″	.44	69	2′5″x16″
14″	1⅜″	.47	.75	18″
16″	1⅜″	.53	.84	20″
18″	1⅜″	.57	.91	22″
20″	1⅜″	.64	1.01	24″
14″x16″	1⅜″	.62	.97	2′9″x20″
18″	1⅜″	.65	1.03	22″
20″	1⅜″	.70	1.11	24″

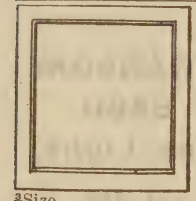
CELLAR SASH. Three Lights



Three Lights.

Lot Not 194.

Size of Glass.	Thickness.	Price Single Glazed.	Price Double Glazed.	Size of Sash.
7″x 9″	1⅜″	$0.35	$0.55	2′ 1″x1′ 1″
8″x10″	1⅜″	.38	.60	2′ 4″x1′ 2″
12″	1⅜″	.44	.68	1′ 4″
14″	1⅜″	.48	.77	1′ 6″
9″x12″	1⅜″	.45	.70	2′ 7″x1′ 4″
14″	1⅜″	.48	.77	1′ 6″
16″	1⅜″	.55	.87	1′ 8″
10″x12″	1⅜″	.47	.75	2′10″x1′ 4″
14″	1⅜″	.54	.85	1′ 6″
16″	1⅜″	.60	.97	1′ 8″
12″x12″	1⅜″	.56	.89	3′ 4″x1′ 4″
14″	1⅜″	.65	1.03	1′ 6″
16″	1⅜″	.68	1.09	1′ 8″
18″	1⅜″	.75	1.21	1′10″



ONE LIGHT STALL SASH.

1⅜-inch Thick.
No. 115.

Size of Glass.	Price per Sash Glazed.
10″x12″	$0.32
10″x14″	.35
12″x14″	.40
12″x16″	.43

ATTIC SASH.

Attic Sash, one light, 3-inch bottom rail. 1⅜ inches thick.

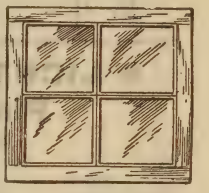
Size Glass	Price Per Sash Glazed.	Size Sash.
18″x20″	$0.59	1′10″x2′1″
20″x20″	.64	2′ 0″x2′1″
20″x24″	.70	2′ 0″x2′5″
24″x24″	.79	2′ 4″x2′5„
24″x28″	.87	2′ 4″x2′9„

Brand New Two Light PANTRY WINDOWS.

One Light Wide Check Rail.
1⅜-inch thick.

Size of Glass.	Price per Window Glazed.	Size of Window.
12″x20″	$0.67	1′4½″x3′10″
12″x24″	.71	4′ 6″
12″x26″	.84	4′10″
12″x28″	.85	5′ 2″
12″x30″	.88	5′ 6″
12″x32″	.93	5′10″
12″x34″	1.04	6′ 2″
12″x36″	1.09	6′ 6″
14″x20″	.68	1′6½″x3′10″
14″x24″	.73	4′ 6″
14″x26″	.85	4′10″
14″x28″	.86	5′ 2″
14″x30″	.89	5′ 6″
14″x32″	.95	5′10″
14″x34″	1.06	6′ 2″
14″x36″	1.10	6′ 6″

BRAND NEW BARN SASH.



Four-Light 1⅜-inch Thick.
Lot No. 112.

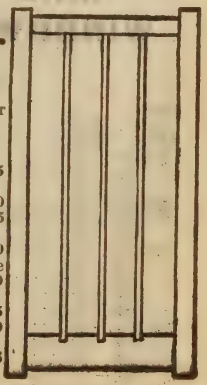
Size of Glass.	Price, Per Sash, Glazed.
8″x10″	$0.43
8″x12″	.46
9″x12″	.52
9″x14″	.55
9″x16″	.69
10″x12″	.54
10″x14″	.62
10″x16″	.69
12″x14″	.75
12″x16″	.79

Barn Sash.

Lot No. 114.

Size of Glass.	⅛ in. Thick	Price, Per Sash Glazed.
8″x10″		$0.65
9″x12″		.75
10″x12″		.85
10″x14″		.92

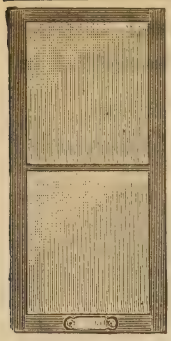
Hot Bed Sash.



Size of sash 3′x6′x1⅜″

glazed with 4 rows of clear 7 inch glass.
Lot No. 216. Made of No. 1 Cypress

Unglazed, single lots	$0.95
Unglazed in lots of one dozen or more	.90
Glazed, in single lots	1.65
Glazed, in lots of one dozen or more	1.60
Made of No. 1 White Pine	
Unglazed, single lots	$0.90
Unglazed, in lots of one dozen or more	.85
Glazed, in single lots	1.60
Glazed, in lots of one dozen or more	1.55



STORM SASH

Two Lights.

1⅛ inch.

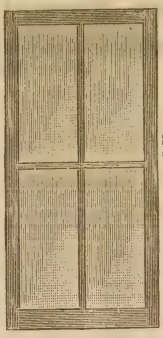
Lot No. 2000

Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength	Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength
16 x 24	$0.75	$1.00	22 x 26	0.95	1.25
16 x 26	.86	1.14	22 x 28	1.01	1.33
16 x 28	.87	1.21	22 x 30	1.11	1.47
16 x 30	.90	1.28	22 x 32	1.20	1.60
16 x 32	.96	1.35	22 x 34	1.34	1.74
18 x 24	.83	1.03	22 x 36	1.38	1.88
18 x 26	.88	1.19	24 x 24	.99	1.30
18 x 28	.91	1.32	24 x 26	1.00	1.33
18 x 30	.94	1.35	24 x 28	1.10	1.46
18 x 32	.99	1.42	24 x 30	1.19	1.58
20 x 20	.81	1.09	24 x 32	1.27	1.64
20 x 22	.85	1.11	24 x 34	1.38	1.80
20 x 24	.86	1.12	24 x 36	1.40	1.82
20 x 26	.90	1.18	26 x 28	1.30	1.69
20 x 28	.96	1.25	26 x 30	1.34	1.76
20 x 30	1.02	1.34	26 x 32	1.36	1.78
20 x 32	1.12	1.49	28 x 30	1.61	2.08
20 x 34	1.20	1.58	28 x 32	1.63	2.10
22 x 24	.90	1.19			

Ventilators in bottom 10c each extra.

Size. Bottom Glass inch.	Size. Top Glass inch.	Price Glazed D. S.
40 x 40	40 x 14	$2.88
40 x 40	40 x 16	2.98
40 x 44	40 x 16	3.27
44 x 40	44 x 16	3.37
44 x 44	44 x 16	3.47
44 x 46	44 x 18	3.62
44 x 50	44 x 18	3.87

Ventilators in bottom 10c extra.



Storm Sash.

Four Lights.

LOT NO. 2001.

Size of Glass.	Price.	Size of Glass.	Price.
10x20	$0 70	12x26	$1.01
10x22	.78	12x28	1.06
10x24	.80	12x30	1.18
10x26	.90	12x32	1.23
10x28	.94	12x34	1.36
10x30	1.05	12x36	1.37
10x32	1.14	14x26	1.18
12x20	.78	14x28	1.22
12x22	.89	14x30	1.33
12x24	.55	14x32	1.40

Ventliators in bottom 10c extra.

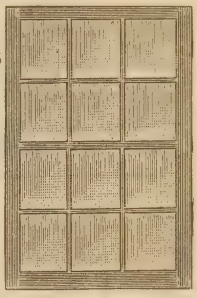
Storm Sash.

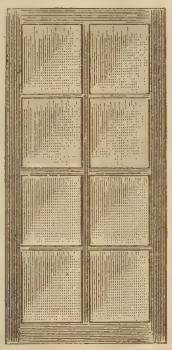
Twelve Lights, 1 1-8 inches Thick.

LOT NO. 2003.

Size of Glass	Price Glazed
8 x 10	$0.80
9 x 12	1.00
9 x 14	1.18
10 x 12	1.09
10 x 14	1.21

Ventilators in bottom 10c extra.





Sash Storm.

Eight Lights, 1 1-8 inches Thick.

Lot No. 2002.

Size of Glass.	Price Glazed
8 x 10	$0.79
9 x 12	.80
10 x 12	.80
10 x 14	.88
10 x 16	1.03
12 x 14	1.03
12 x 16	1.14

Ventilators in bottom 10c extra.

USED PLATE GLASS SASH.

These sash are in good condition and are glazed with the best plate glass. Will make excellent sash for store fronts, and can be used with transom as cottage windows.

Lot No. 270 Size 40″x42″. Price each..... $4.50
Lot No. 271 Size 42″x52″ Price..... 5.00

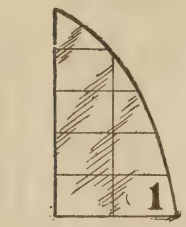
USED SASH FROM THE WORLD'S FAIR.

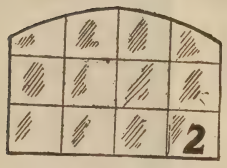
Lot No. 221. 265 Fancy Windows and Sash that came from the St. Louis Exposition and from regular jobs we have dismantled. It is absolutely impossible to describe them. If you have some special spot where you need a fancy leaded glass window, you can trust to our judgement in the matter and we will select as carefully as we can and figure just as though we were buying for ourselves. We make a price on these windows, each..60c

Lot No. 231. 1,000 second hand Barn Sash. Sizes ranging from 12x12 inches up to 2x2 feet. There are 2 to 12 lights to a sash, no regularity. But we can furnish several sash or windows of one kind, so you will be able to pick out sets or enough for your requirements. Give us range of sizes you can use and we will select nearest we can. We will not accept an order for any specified size. Price each.....25c

List of Used Sash Glazed With 1-8 in. Ribbed Glass.

Lots Nos. 31 to 52 Sash Are Covered on One Side with 16 Gauge 7-8 in. Wire Mesh Netting.

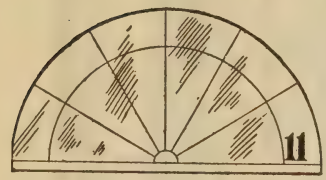




Lot No.	Quantity.	Size, Opening.	Thickness.	No. of Lights.	Size of Glass.	Price
A 1.	2,500	20″x6′	1¾	3	16″x22″	$0.70
A 2.	1,200	4′5″x7′8″	1¾	28	12″x12″	2.38
A 3.	15	4′10″x8′	1¾	35	10″x14″	2.73
A 5.	150	8′7″x8′8″	2¼	9	31″x32″	5.25
A 6.	300	2′10″x2′9″	1¾	6	10″x14″	.56
A 7.	60	4′10″x9′	1¾	45	10″x12″	3.05
A 8.	1,000	29″x42″	1¾	4	13¾″x19″	.70
A 9.	150	5′10″x7′8″	1¾	9	20¾″x27″	3.15
A10.	50	2′11″x10′1″	2¼	10	14″x17″	2.03
A11.	15	3′x8′	2¼	27	10″x10″	1.68
A12.	100	5′4″x5′4″	1¾	6	20″x28″	1.96
A13.	200	3′9″x6′5″	1¾	20	10″x14″	1.82
A15.	50	4′x6′	1¾	..	See Cut 11	2.80
A16.	75	13′x10′	1¾	5	9″x20″	.70
A17.	25	4′8″x7′8″	1¾	30	10″x14″	2.52
A18.	200	5′10″x17′6″	1¾	21	20″x27″	7.00
A19.	50	4′5″x9′	1¾	12	15″x25″	2.73
A20.	30	5′4″x9′4″	1¾	12	See Cut 10	3.50
A21.	25	4′6″x6′	2¼	6	16″x22″	1.89
A22.	40	5′4″x4′4″	1¾	2	24″x46″	1.61
A23.	100	9′3″x10′2″	2¼	16	26x″28″	6.58
A24.	25	5′1″x5′5″	1¾	16	15″x14″	1.89
A25.	100	8′8″x10′2″	2¼	..	.....	6.30
A26.	200	8′8″x6′6″	2¼	12	24″x38″	4.90
A27.	25	3′9″x2′9″	1¾	6	13½″x13½″	.70
A28.	50	5′5″x8′	1¾	25	12″x18″	3.01
A29.	50	2′x4′6″	2¼	11	See Cut 1	6.30
A30.	50	3′8″x5′8″	2¼	30	See Cut 2	2.07
A31.	25	3′x5′10″	2¼	..	See Cut 1	1.19
A32.	40	2′10″x7′2″	2¼	1	30″x80″	1.75
A33.	50	2′7″x3′9″	1¾	1	24″x38″	.84
A34.	200	3′1″x3′3″	1¾	1	34″x35″	.88
A35.	25	2′7″x4′2″	1¾	1	26″x42″	.84
A36.	75	2′11″x3′	1¾	1	28″x32″	.98
A37.	150	2′8″x2′10″	1¾	1	27″x30″	.77
A38.	50	2′7″x2′11″	1¾	1	26″x30″	.70
A39.	40	2′10″x3′10″	1¾	1	28″x42″	1.26
A40.	50	2′11″x3′4″	1¾	1	29″x35″	1.19
A41.	50	2′10″x3′3″	1¾	1	28″x34″	1.19
A42.	50	2′8″x3′3″	1¾	1	26x″35″	1.19
A43.	50	3′3″x3′3″	1¾	1	35″x35″	1.33
A44.	25	3′3″x3′7″	1¾	1	34″x38″	1.33
A45.	200	2′9″x2′1″	1¾	1	29″x30″	.70
A46.	100	3′10″x3′5″	1¾	1	42″x36″	1.33
A47.	25	2′4″x4′2″	1¾	1	24″x46″	.77
A48.	300	2′8″x2′10″	1¾	1	20″x32″	.84
A49.	50	2′01″x4′7″	1¾	1	30″x52″	1.33
A50.	200	3′2″x3′1″	1¾	1	24″x33″	.91
A51.	150	2′10″x2′8″	1¾	1	28″x30″	.77
A52.	10	6′7″x8′2″	1¾	30	12″x16″	3.71
A53.	25	5′2″x2′8″	1¾	4	14″x28″	.98
A54.	15	6′x9′6″	2¼	21	Irregular.	3.50
A56.	10	4′3″x6′6″	1¾	24	10½″x10″	1.93
A57.	15	3′4″x5′8″	1¾	6	Irregular.	1.26
A58.	5	5′4″x2′11″	1¾	3	19″x30″	1.09
A59.	100	2′5″x4′9″	1¾	2	12½″x52″	.81
A60.	100	2′7″x4′9″	1¾	2	14″x52″	.84
A64.	25	4′8″x4′4″	2¼	6	16″x22″	1.40
A66.	33	4′5″x6′5″	1¾	20	12″x14″	1.96
A68.	100	3′2″x3′2″	1¾	4	16″x16″ Cut 12.	.70
A69.	150	6′6″x14″	2¼	28	18″x22″	6.37
A70.	25	24″x4′	1¾	2	18″x22″	.53
A71.	25	7′6″x4′	1¾	16	See Cut 11.	2.10
A72.	100	2′6″x6′5″	1¾	10	" " 1.	1.12
A73.	25	2′6″x4′	2¼	6	" " 1.	.70
A74.	50	5′11″x4′	2¼	8	" " 11.	1.65
A75.	75	4′6″x2′4″	2¼	4	" " 11.	.74
A76.	25	3′7″x8′8″	1¾	14	" " 14.	2.17
A77.	75	5′3″x5′3″	1¾	6	18″x28″	1.89
A78.	25	2′3″x3′3″	1¾	1	22″x34″	.53
A79.	500	2′5″x19′5″	1¾	10	12″x44″	3.29
A80.	500	2′7″x19′5″	1¾	10	13″x44″	3.50
A81.	100	2′11″x3′7″	1¾	1	30″x38″	.70
A82.	25	2′8″x4′2″	1¾	1	27″x44″	.77
A83.	25	3′2″x4′2″	1¾	1	34″x44″	.91
A84.	25	20″x22″	1¾	1	16″x18″	.32
A85.	200	21″x46″	1¾	3	18″x16″	.49
A86.	50	3′2″x7′9″	1¾	2	34″x42″	1.72
A87.	25	2′6″x6′	2¼	10	12″x12″	1.05
A88.	50	5′x7′4″	1¾	12	18″x20″	2.59
A89.	25	7′4″x7′10″	1¾	9	20″x28″	3.99
A91.	100	2′3″x8′	2¼	5	23″x18″	1.26
A92.	200	8′7″x5′6″	2¼	8	24″x30″	3.29
A93.	30	4′6″x4′	1¾	6	16″x22″	1.26
A94.	50	2′11″x6′9″	2¼	8	14″x18″ Cut 12	1.33
A95.	75	2′5″x7′1″	1¾	11	See Cut 1.	1.19
A96.	200	2′10″x2′9″	1¾	6	10″x14″	.56

LIST OF SASH GLAZED, CLEAR GLASS.

Transom Sash



Four Light Sash

Circle Top Sash

Lot No.	Quantity.	Size Opening.	Thickness.	No. Lights.	Size Glass.	Price, each.
A 98.	100	4′5″x7′	2¼	4	Ptd. Glass 23″x40″	2.10
A 99.	100	4′5″x7′	2¼	4	23″x40″	3.20
A100.	25	3′8″x3′4″	1¾	8	10″x18″	.75
A101.	20	3′1″x3′8″	1¾	8	11″x20″	.65
A102.	30	2′10″x3′5″	1¾	6	10″x19″	.60
A103.	100	2′10″x3′6″	1¾	6	10″x20″	.80
A104.	75	3′1″x3′5″	1¾	6	11″x19″	.80
A105.	40	22″x25″	1¾	2	9″x19″	.25
A106.	5	2′10″x18″	1¾	1	Tr'n'm30″x14″	.35
A107.	5	2′4″x18″	1¾	1	24″x40″	.25
A108	50	4′9″x6′	1¾	9	Ptd. Glass. 16½″x22″	2.00
A110.	15	2′9″x2′10″	1⅜	2	14″x30″	.45
A111.	10	2′8″x16″	1⅜	1	12″x28″	.40
A112.	2	28″x20″	1⅜	1	16″x24″	.25
A113.	7	14″x3′9″	1⅜	5	8″x10″	.35
A114.	25	2′9″x3′8″	1⅜	4	14″x20″	.60
A115.	15	2′11″x4′1″	1⅜	6	10½″x22″	.80
A116.	15	2′5″x2′8″	1⅜	4	12″x14″	.35
A117.	100	2′2″x4′10″	1¼	3	23″x17½″	.50
A118.	150	2′3″x4′3″	1¼	2	23″x23″	.50
A119	10	3′6″x24″	1⅛	1	Sanded38x20″	.56
A120	100	2′3″x4′6″	1⅛	2	23″x25″	.80
A121	5	3′2″x3′1″	1⅛	6	11″x16″	.60
A122	2	2′2″x3′6″	1⅛	6	11″x12″	.45
A123	20	3′11″x5′	1⅛	6	21″x19″	1.25
A124	6	2′9″x3′5″	1⅛	4	15″x19″	.60
A125	2	2′6″x4′2″	1⅛	20	6″x9″	.75
A126.	25	2′11″x2′7″	1⅛	6	10″x14″	.60
A127.	14	3′2″x4′5″	1⅛	4	15″x18″	.60
A128.	5	3′5″x10′	1⅛	6	14″x21½″	1.25
A129.	2	2′11″x4′7″	1⅛	8	10″x15″	1.00
A130.	18	4′6″x4′	1⅛	6	16″x22″	1.60
A131.	15	6′4″x4′	1⅛	8	16″x22″	2.00
A132.	4	3′6″x4′10″	1⅛	9	12″x14½″	1.00
A133.	2	20″x3′1″	1⅛	2	16″x16″	.35
A134.	25	26″x48″	1⅛	6	10½″x14½″	.75
A135.	6	4′2″x9′4″	1¼	15	15″x20½″	2.80
A136.	2	6′9″x9′4″	1¼	25	15x20½″″	4.75
A137.	5	3′11″x4′	1⅛	12	10″x14″	.75
A138.	3	3′9″x4′1″	1⅛	12	13½″x14½″	1.10
A139.	5	4′6″x4′1″	1⅛	12	12″x14½″	
A140.	25	2′9″x3′3″	1¼	4	14″x18″	.50
A141.	25	22″x5′3″	1¼	4	9″x28″SeeCut7	.75
A142.	15	3′1″x3′1″	1¼	4	11″x17″	.45
A143.	10	2′11″x3′3″	1¼	4	10″x18″	.45
A144.	18	2′10″x2′11″	1¼	4	10″x16″	.40
A145.	50	2′7″x2′3″	1⅛	6	9″x12″	.40
A146.	40	2′8″x2′7″	1⅛	6	9″x14″	.40
A147.	75	2′8″x2′10″	1⅛	6	10″x14″	.45
A148.	1	20″x3′2″	1¾	2	17″x16″	.20
A149.	1	2′5″x3′5″	1¾	3	12″x30″	.50
A150.	2	3′6″x2′	1¾	3	12″x20″	.40
A151.	1	17″x26″	1⅛	2	10″x14″	.20
A152.	1	19″x37″	1⅛	8	8″x8″	.20
A153.	25	14″x13″	1⅛	4	4″x4″	.25
A154.	3	4′4″x4′9″	1⅛	12	11″x17″	1.25
A155.	2	4′x5′1″	1⅛	12	11″x18″	1.20
A156.	1	5′2″x3′6″	1⅛	6	14″x18″	1.10
A157.	1	3′2″x7′4″	1⅛	4	14″x40″	.35
A158.	1	3′1″x2′1″	1⅛	2	16″x20″	.30
A159.	1	19″x3′5″	1⅜	2	15″x18″	.30
A160.	2	19″x3′5″	1⅜	3	12″x16″	.75
A161.	2	2′4″x5′	1⅜	6	12″x18″	.45
A162.	19	14″x5′3″	1⅛	10	5″x9″	.20
A163.	10	18″x5′8″	1¼	1	14″x64″	.55
A164.	8	18″x42″	1¼	1	Transom 14″x38″	.70
A165.	5	3′x3′8″	1⅜	15	8″x10″	.25
A166.	5	19″x26″	1¼	1	15″x22″	1.00
A167.	5	3′10″x3′10″	1⅜	6	14″x20″	.75
A168.	10	3′x3′10″	1¼	6	14″x16″	1.00
A169.	18	3′x3′9″	1⅜	12	10″x10″	1.30
A170.	7	20″x9′3″	1¼	5	16″x21″	.70
A171.	25	20″x3′6″	1¼	1	Tr'n'm16″x38″	.45
A172.	40	2′10″x3′	1⅛	6	10″x16″	.40
A173.	25	3′4″x2′8″	1⅛	6	12″x14″	1.20
A174.	6	4′6″x3′3″	1⅜	8	12″x17″	.60
A175.	15	3′1″x3′	1⅜	2	16″x30″	.75
A176.	25	4′6″x2′9″	1¼	8	12″x14″	.62
A177.	15	2′9″x3′1″	1¼	2	14″x32″	1.20
A178.	8	3′8″x4′6″	1⅜	6	13″x24″	1.10
A179.	2	4′8″x3′2″	1⅜	8	12″x16″	1.00
A180.	2	4′6″x2′9″	1⅜	8	12″x14″	1.00

Sash Glazed, Clear Glass---Continued.

Lot No.	Quantity.	Size Opening.	Thickness.	No. Lights.	Size Glass.	Price each
A181	10	3′4″x2′6″	1⅜	2	18″x22″	$0.50
A182	15	2′9″x4′	1¾	1	30″x44″	1.05
A183	7	2′8″x4′2″	1¾	6	9″x24″	95
A184	6	3′11″x4′11″	1¾	9	14″x18″	1.50
A185	10	2′9″x3′4″	1¾	4	4″x8″	.50
A186	10	3′8″x2′9″	1¾	8	10″x14″	.65
A187	1	6′5″x3′4″	1¾	14	10″x16″	1.70
A189	22	2′10″x7′8″	1¾	8	15″x22″	2.10
A190	4	2′4″x3′9″	1¾	9	8″x14″	60
A191	25	2′2″x4′	1¾	4	10″x21″	65
A192	60	6′x6′3″	2¼	21	13″x17″	2.10
A193	200	21″x42″	1¾	1	18″x38″	.60
A194	200	21″x52″	1¾	1	18″x48″	80
A195	40	2′7″x4′2″	1¾	6	13″x11″	.75
A196	5	2′8″x7′8″	1¾	8	14″x21″	1.50
A197	3	2′10″x9′10″	1¾	8	15″x26″	1.75
A198	40	3′9″x3′11″	1¾	12	10″x14″	1.00
A199	1	2′9″x5′10″	1¾	50	5¼″x5¾″	1.00
A200	3	2′9″x5′10″	1¾	35	8″x8½″	1.45
A201	25	2′x5′11″	2¼	1	{ Half Circle } { 29″x65″ }	2 10
A202						
A203	6	3′5x″5′5″	1¾	10	11½″x17½″	
A204	2	2′10″x4′2″	1¾	16	7″x11″	1.50
A205	6	2′1″x4′	1¾	8	10½″x10½″	1.00
A206	5	2′1″x4′	1¾	6	10″x14″	.60
A207	10	4′8″x4′4″	1¾	6	16″x22″	.50
A208	2	10″x3′6″	1¾	6	6″x6″	1.45
A209	15	2′10″x4′	1¾	9	10″x14″	.35
A210	2	3′6″x3′1″	1¾	6	12″x16″	.80
A211	50	3′9″x4′2″	1¾	6	12″x22″	.75
A212	50	4′9″x4′4″	1¾	6	17″x23″	1.25
A213	5	3′x6′10″	2	2	30″x36″	1.75
A214	5	2′10″x7″	1¾	1	30″x68″	1.50
A215	15	2′6″x6′	2	1	25″x66″	.25
A216	3	2′8″x5′6″	2	1	27″x56″	2.10
A217	9	22″x3′8″	1¾	8	8½″x9½″	1.75
A218	8	2′6″x3′	1¾	1	26″x32″	.40
A219	20	2′10″x8′7″	1¾	3	30″x32″	65
A220	10	3′2″x10′6″	1¾	2	33″x60″	2.50
A221	11	7′11″x7′	1¾	42	12″x18″	3.75
A222	15	2′9″x3′3″	1¾	2	14″x36″	6.00
A223	25	2′9″x2′9″	1¾	2	14″x30″	.60
A224	5	2′8″x2′8″	1¾	2	13″x28″	.45
A225	25	2′5″x2′6″	1¾	4	12″x14″	.40
A226	10	3′1″x3′8″	1¾	2	16″x40″	.35
A327	25	3′4″x3′7″	1¾	6	12″x20″	1.25
A228	7	2′x2′6″	1⅜	1	20″x24″	1.00
A229	6	2′11″x3′9″	1¾	4	15″x20″	40
A230	50	2′7″x2′11″	1⅜	6	9″x16″	.65
A231	25	2′11″x2′3″	1¾	6	10″x12″	.40
A232	1	2′x5′5″	1¾	6	10″x20″	.40
A233	50	2′7″x2′7″	1⅜	6	9″x14″	.75
A234	6	4′4″x4′7″	1¾	8	12″x20″	.40
A235	8	2′9″x2′11″	1¾	6	14″x16″	1 25
A236	25	2′7″x2′4″	1¾	6	9″x12″	.60
A237	50	2′7″x2′7″	1¾	6	9″x14″	.35
A238	50	2′4″x2′3″	1¾	6	8″x12″	.45
A239	1	2′10″x4′5″	1¾	9	10x16″	.40
A240	25	2′3″x2′4″	1¾	6	8″x10″	.75
A241	50	2′8″x2′3″	1¾	6	9″x12″	.35
A242	12	3′4″x3′8″	1¾	6	12″x20″	1.25
A243	25	3′4x3′4″	1¾	6	12″x18″	1.00
A244	30	25″x28″	1¾	2	10″x28″	.40
A245	6	2′7″x2′4″	1¾	2	13″x24″	.25
A246	10	2′5″x3′3″	1¾	4	12″x18″	.40

FREE PLANS

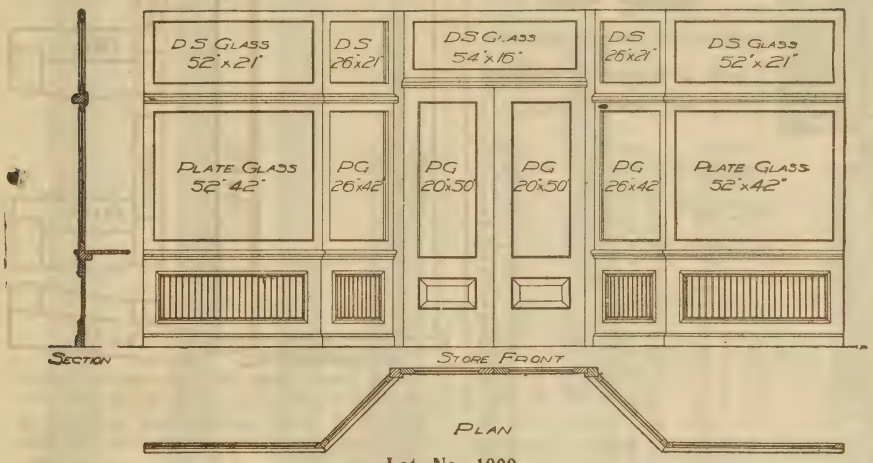
Be sure you get a copy of our **Free Book of Plans** and our **Free Plan and Specification Proposition** before you decide anything definite in the building line.

We show largest number and most appropriate Houses, Cottages and Bungalows ever offered. All practical, artistic and economical.

We furnish them complete.

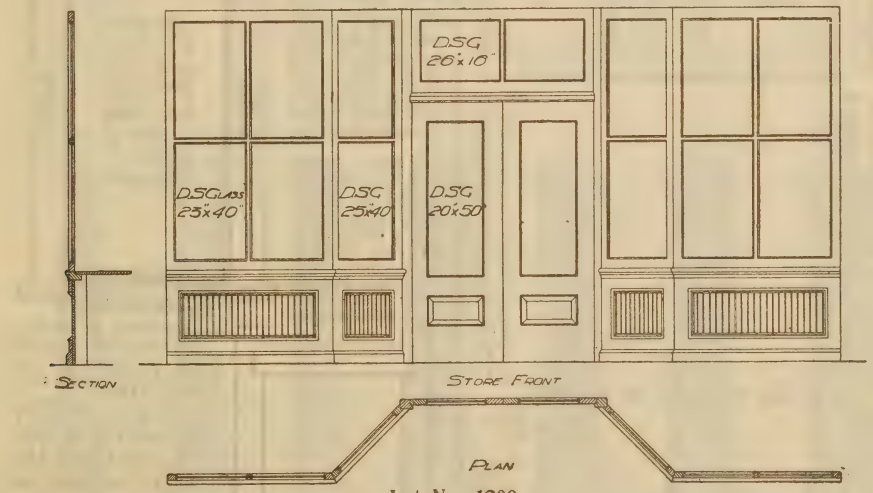
Don't fail to get our Free Plan Book.

STORE FRONT BARGAINS!



Lot No. 1000.

The above represents a very handsome and practical store front. The main sash and sidelights as well as doors are glazed with 3-8 inch French plate glass. All transoms are double strength A glass. This sketch is based on 18 foot opening by 9 foot ceiling. However this can be changed as to length and height. While the sash have been used, they are just as good as new for all practical purposes and are in extra good condition, and after receiving a coat of paint no one will be any the wiser. All Other Material Brand New Stock. **The Doors are Brand New A Grade White Pine** glazed with plate glass. Prices and details on application.



Lot No. 1200.

Here is shown another practical store front, much cheaper. All sash are glazed with double strength A glass, thoroughly seasoned and while they have been used they are practically as good as new and after a coat of paint no one will know the difference. All Other Material Brand New Stock. **The Store Doors are Brand New A Grade White Pine, glazed with double strength glass, and on the whole this is a very practical and economical front. Prices and details on application.**

The above sketch is based on 18 foot opening, 9 foot ceiling.

BLINDS.

Outside Blinds.

Rolling Slats.

For 2 Light Windows 1 1-8 inch Thick.

Size of Glass.	Price per Pair.	size of Glass.	Price per Pair.
16 x 26	$1.05	24 x 30	$1.18
16 x 28	1.10	24 x 32	1.23
16 x 30	1.18	24 x 34	1.31
16 x 32	1.23	24 x 36	1.39
16 x 36	1.39	24 x 38	1.50
18 x 24	1.00	24 x 40	1.52
18 x 26	1.05	26 x 28	1.18
18 x 28	1.10	26 x 30	1.29
18 x 30	1.18	26 x 32	1.31
18 x 32	1.23	26 x 34	1.50
18 x 34	1.31	26 x 36	1.52
20 x 24	1.00	26 x 38	1.63
20 x 28	1.10	26 x 40	1.65
20 x 30	1.18	28 x 28	1.18
20 x 32	1.23	28 x 30	1.29
20 x 34	1.31	28 x 32	1.31
20 x 36	.39	28 x 34	1.50
22 x 24	1.99	28 x 36	1.52
22 x 26	1.05	28 x 38	1.63
22 x 28	1.10	28 x 40	1.65
22 x 30	1.18	30 x 30	1.42
22 x 32	1.23	30 x 32	1.44
22 x 34	1.31	30 x 34	1.65
22 x 36	1.39	30 x 36	1.68
24 x 24	1.00	30 x 38	1.79
24 x 26	1.05	30 x 40	1.81
24 x 28	1.10		

For 2 Light Pantry Windows 1 1-8 inch Thick.

12 x 24	$0.66	14 x 24	$0.74
12 x 28	.74	14 x 26	.76
12 x 30	.76	14 x 28	.84
12 x 32	.84	14 x 30	.87
12 x 34	.89	14 x 32	.87
12 x 36	.97	14 x 36	1.00
14 x 20	.74		

For 4 Light Windows 1 1-8 Thick

12 x 20	$0.78
12 x 24	1.00
12 x 26	1.05
12 x 28	1.10
12 x 30	1.18
12 x 32	1.23
12 x 34	1.31
12 x 36	1.39
12 x 38	1.50
12 x 40	1.52
14 x 24	1.10
14 x 26	1.16
14 x 26	1.18
14 x 30	1.29
14 x 32	1.31
14 x 34	1.50
14 x 36	1.52
14 x 38	1.63
14 x 40	1.65

For 8 Light Windows 1 1-8 inch Thick.

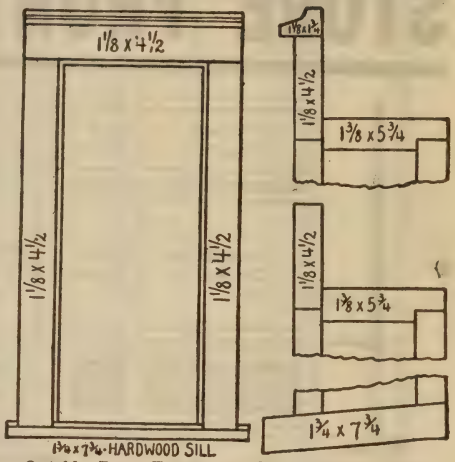
Size of Glass	Price per pair
8 x 10	$1.00
10 x 12	1.00
10 x 14	1.10
10 x 16	1.23

For 12 Light Windows 1 1-8 inch Thick.

8 x 10	$0.87
9 x 12	1.10
9 x 13	1.16
9 x 14	1.18
10 x 12	1.16
10 x 14	1.23
10 x 16	1.39
10 x 18	1.54
10 x 20	1.71

Outside Door Frames.

For Frame Buildings. Lot No. N45.



Outside Door Frame No. N45 includes everything complete as shown; outside casing, 1⅛x4½ in.; oak sill, 1¾x7¾ in.; rabbeted jambs, 1⅛x5¾ in.

Made from sound selected clear face Yellow Poplar, bright clear stock. Guaranteed first class in every particular.

Outside Door Frames, F. O. B. Chicago, No. N45, including everything complete, oaksill as shown, bundled for shipment in the knock-down.. **$1.85**

Window Frames.

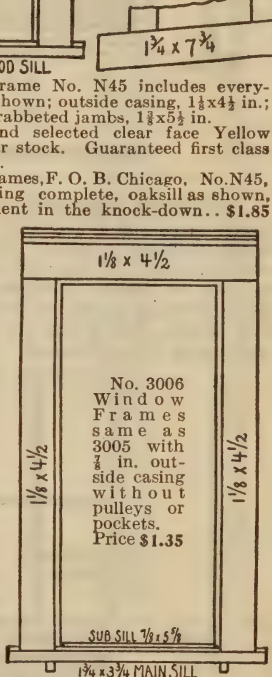
For Frame Buildings.

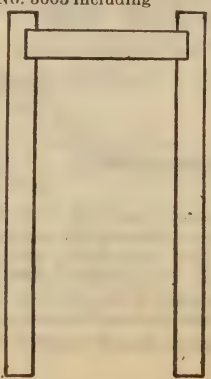
Window Frame No. 3005. Includes everything complete as outside casings 1⅛x4½ in.; main sill, 1¾x3¾ in.; sub sill ⅞x5⅝ in.; jambs including stile and blind stop, 5⅛ in. wide; parting strip, etc.

Made from sound, selected clear face Yellow Poplar; bright, clean stock. Guaranteed first class in every particular.

Window Frames F. O. B. Chicago, No. 3005 including everything as described complete bundled for shipment in the knock-down with pulleys **$1.65**

All usual size Window Frames carried in stock and all take the one price. Any carpenter can put a knock-down rframe together in ten minutes.


1⅛ x 4½
No. 3006 Window Frames same as 3005 with ¼ in. outside casing without pulleys or pockets. Price $1.35
1⅛ x 4½
1⅛ x 4½
SUB SILL ⅞ x 5⅝
1¾ x 3¾ MAIN SILL



Section of Inside Door Jamb Showing Dadoed Head

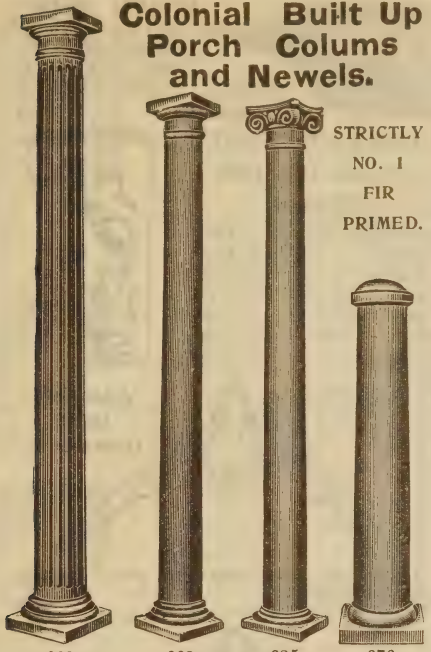
INSIDE DOOR JAMBS.

For Frame Building.

Inside Jambs for 2x4 studding, opening 3x7 or smaller.. **$0.50**

For Jambs with transom heads add..... **$0.25**

Colonial Built Up Porch Colums and Newels.



669 668 635 676

STRICTLY NO. 1 FIR PRIMED.

Size.		668.	669.	635.	676.
6x 6	4 feet	....	....	....	$1.25
8x 8	4 feet	....	....	....	1.45
6x 6	8 feet	$1.70	$2.80	....	....
6x 6	9 feet	1.80	2.95	....	....
6x 6	10 feet	2.00	3.15	....	....
8x 8	8 feet	2.25	3.05	3.05	....
8x 8	9 feet	2.45	3.40	3.30	....
8x 8	10 feet	2.70	3.55	3.50	....
10x10	4 feet	....	....	....	1.90
10x10	8 feet	3.00	4.15	4.05	....
10x10	9 feet	3.30	4.45	4.40	....
10x10	10 feet	3.45	4.75	4.75	....
12x12	8 feet	4.15	5.65	5.70	....
12x12	9 feet	4.55	6.10	6.15	....
12x12	10 feet	5.05	6.30	6.55	....

Fancy Porch Columns and Newels.

1645

Fancy Porch Columns Fir Only.

Size.	1645. 8 ft.	9 ft.	10 ft.
4x4	$0.65	$0.70	$0.75
5x5	1.00	1.15	1.25
6x6	1.50	1.65	1.80

221

Fancy Porch Newels.

Fir Only.

Size.	222.	221.
4x44 feet	$0.35	$0.40
5x5 4 feet	.50	.55
6x6 4 feet	.70	.75

222

Stair and Angle Newels.

MAIN NEWELS SELECTED STOCK.

STAIR NEWELS.

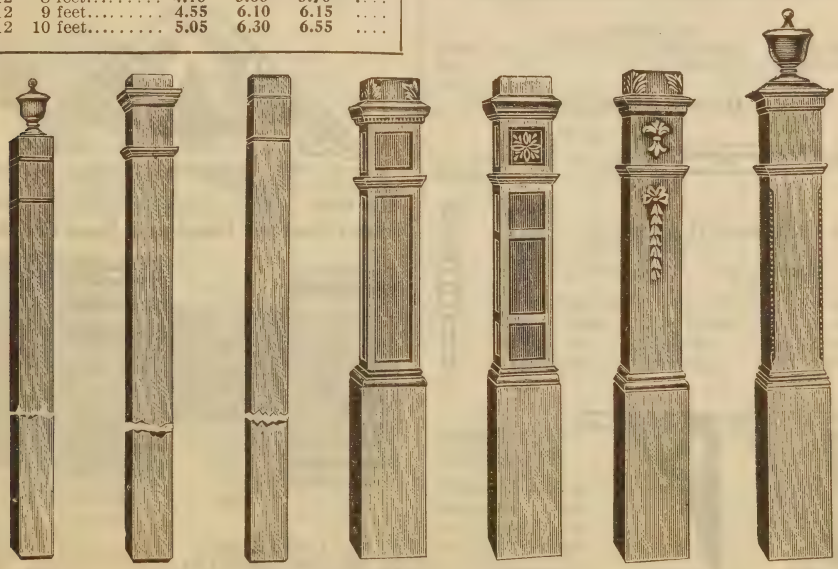
6-inch shaft. Length 4 feet—Long Base.

	Price each. Yellow Pine.	Plain Oak.
Lot N30	$3.15	$3.40
Lot N31	4.00	4.30
Lot N32	4.50	5.00
Lot N33	3.65	3.95

ANGLE NEWELS.

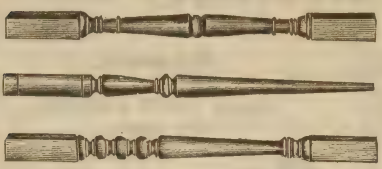
5-Inch Shaft, Extra Long.

	Price, each Yellow Pine	Plain Oak		Price, each Yellow Pine	Plain Oak
Lot 537	$1.90	$2.05.	Lot 737	$1.85	$2 05
Lot 637	2.00	2.10			

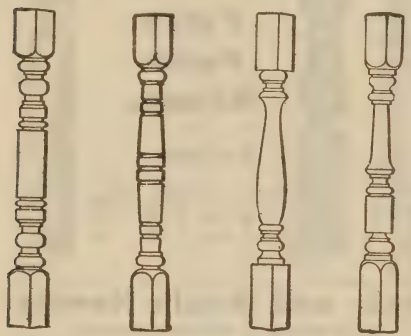


537 637 737 N31 N32 N33 N30

FANCY STAIR BALUSTERS.



	Yellow Pine.	Oak.
Size, 1¾"x1¾"x2'4". Price each, either style	$0.09	$0.10
Size, 1¾"x1¾"x2'8". Price each, either style	.10	.12



FANCY PORCH BALUSTERS.

Lots No. 22, 23, 24, 25.

Size	Price each.
1¾x18	$0.05
1¾x20	.05¼
1¾x22	.05
1¾x24	.05

CORNER BEADS

Lot No. N31.

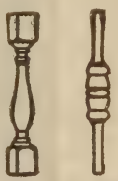
Size, 1⅜"x4'. Price each	$0.10
Size, 1¾"x4'. Price each	.13

BASE ANGLES.

Lot No. N32.

1⅜"x12" or 14". Price per 100 ..... $1.90

FANCY PORCH SPINDLES.



Size In.	Lot No. 26. Price each	Lot No. 27 Price each
1¾x 8	$0.02	$0.02
1¾x10	.02½	.02¼
1¾x12	.02½	.02½

FANCY PORCH BRACKETS.

Lot No. 28 and 29.

Size	Price each
10x12x1⅜ in.	7c
12x14x1⅜ in.	8c
12x16x1⅜ in.	9c

PLATE RAIL.

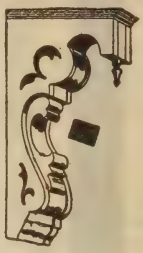
No. 300. Projection from wall 3½ inches. Height over all 2½ inches. Price complete as shown.
Yellow Per lineal ft. $0.06
Plain Sawed Oak. $0.07

FANCY FACE BRACKET

3 Members 3½ in. Thick.

Lot No. 30.

Size inches	Price
8x16	$0.35
8x20	.40
8x24	.45
10x20	.50
10x24	.55
10x30	.65



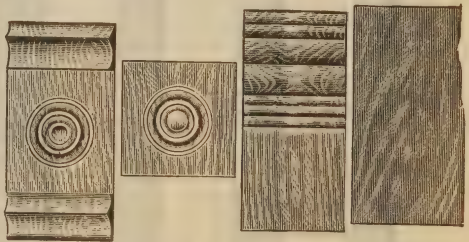
Adjustable Gable Ornaments.

Lot No. N50. Adjustable to any pitch. Extends 4 feet down gable.
Price each $1.00

Lot No. N51. Adjustable any pitch. Extends 5 feet down gable.
Price each $1.35

Lot No. N52. Adjustable any pitch. Extends down gable 6 feet.
Price each $2.50

Fancy Corner Head and Base Blocks.



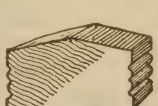
		Price each.
No. N6.	Corner Block	$0.02½
No. N5.	Head Block	.04½
No. N7.	Base Block	.04½
No. N8.	Base Block	.04½

PORCH RAILS.

Lot No. 9.

Top rail 2¼ x 3¾ inches.

Price per 100 feet.....$5.95



Lot No. 10. Top Rail 1¾x3 inch.

Price per 100 feet.....$3.90

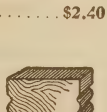
Lot No. 11. Bottom Rail 1¾ x 3 inches. Price, per 100 feet.....$3.90

Lot No. 12. Bottom Rail 1¾x3½ inch. Price, per 100 feet.....$4.50

Lot No. 13. Frieze Rail, 1¾ x 2⅝ inch, Price, per 100 feet.....$3.60

Lot No. 14. Frieze Rail 1¾x3 inch. Priee per 100 feet.....$3 90

Lot No. 15. Baluster stock 1¾ x 1¾ inch. Price per 100 feet.....$2.40



Lot No. 16. Baluster stock 1⅜x1⅜ inch. Price per 100 feet.....$1.65

⅞ x 2¾

FANCY SHOE

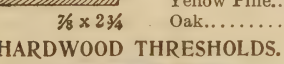
Lot No. N40.

Price per lineal ft.

Yellow Pine.....4c

Oak.....5c

HARDWOOD THRESHOLDS.



Lot No. N33.

Clear Maple, length 3 feet. Price each 7c

Clear Oak, length 3 feet. Price each.....9c

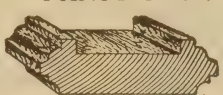
Fancy Stair Rails.

2¼ x 3¾

2¾ x 3¾

	Lot N39 Price per Lineal ft.	Lot Ns8 Yellow Pine.	Plain Oak.
Lot N38.		$0.09½	$0.12
Lot N39.		.07	.10

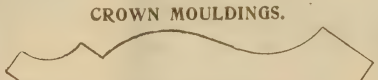
FANCY SHOE AND FILLET.



⅞ x 2¾

	Lot 603, ⅞x2¾. Price per Lineal ft.	Lot 604, ⅝x1¾ Yellow Pine.	Oak.
Lot No. 603.		$0.04	$0.05
Lot No. 604.		.01½	.02

CROWN MOULDINGS.

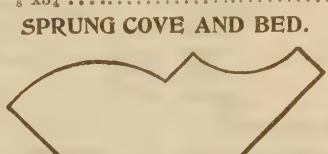


Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8000.	⅞"x3½"	$1.57
8002.	⅞"x3⅜"	1.80
8003.	⅞"x2⅜"	1.35
8005.	⅞"x4½"	2.25
8006.	⅞"x4½"	2.02
8007.	⅞"x1¾"	.80
8008.	⅞"x2¼"	1.12

No.	Size.	Poplar or White Pine.
8009.	⅞"x3⅜"	$1.80
8010.	⅞"x2⅜"	1.35
8011.	⅞"x2½"	1.12
8012.	⅞"x4½"	2.02
8013.	⅞"x4½"	2'25
8014.	⅞"x3½"	1.57

SPRUNG COVE AND BED.



Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8015.	⅞"x1 "	$0.46
8016.	⅞"x1¼"	.80

Price per lineal 100 feet.

No.	Size.	Poplar or White Pine.
8018.	⅞"x2¼"	$1.12
8019.	⅞"x2⅜"	1.35
8020.	⅞"x3¼"	1.57

SPRUNG COVER AND BED.

Price per lineal 100 feet.

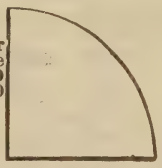
No.	Size.	Poplar or White Pine.
8024.	⅞"x1¼"	$0.80
8025.	⅞"x2½"	1.12
8030.	⅞"x2¼"	1.12
8031.	⅞"x1¼"	.80
8032.	⅞"x2 "	.90

COVES.

Price per 100 lineal feet.

No.	Size.	Yellow Pine.	Poplar or White Pine
8060.	¾"x ⅞"	$0.33	$0.40
8061.	⅞"x1⅛"	.42	.50

QUARTER-ROUND.



Price per 100 lineal feet.

No.	Size	Yellow Pine.	Poplar or White Pine
8065.	¾"x¾"	$0.30	$0.40
8066.	⅞"x⅞"	.30	.40

O. G. STOPS.

Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8083.	¾"x1¼"	$0.33
8084.	¾"x1⅜"	.37
8085.	¾"x1½"	.47
8094.	½"x2"	.72
8095.	½"x1½"	.54
8096.	½"x1⅜"	.41
8097.	½"x1⅛"	.37

SOLID BED MOLD.

		White Pine Poplar
8035.	¾"x⅞"	$0.40
8039.	1¾"x1¾"	2.20
8045.	¾"x1½"	.60
8048.	1¾"x2"	2.79

RETURN BEADS.

No.	Size.	Yellow Pine.	White Pine. or Poplar
No. 8049.	1⅜"x1⅜"	$1.95	$2.18
No. 8050.	1¼"x1¼"	.92	1.24
No. 8051.	1 "x1 "	.67	.76

THREE-QUARTER ROUND.

No.	Size.	Yellow Pine.	White Pine or Poplar
8055.	1⅜"	$1.12	$1.48
8056.	1⅜"	1.94	2.18

HALF ROUND.

No.	Size.	Yellow Pine.	Wht Pine. or Poplar
8078.	¼"x1 "	$0.37	$0.46
8080.	⅜"x1⅝"	0.58	.70
8081.	⅞"x1¼"	.67	.80

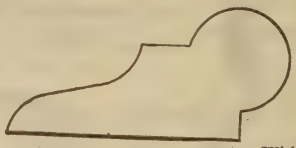
NOSINGS.

No.	Size	Yellow Pine.	White Pine or Poplar
8123.	⅞"x1½"	$0.46	$0.66
8124.	1½"x2 "	1.50	1.69
8125.	1⅜"x2¼"	1.98	2.23
8126.	1¾"x2¾"	3.52	3.96
8131.	⅞"x1¼"	.46	.56

ASTRAGALS.

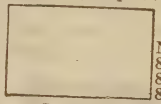
No.	Size.	White Pine or Poplar.
8139.	5/16"x⅝"	$0.33
8140.	⅜"x¾"	.33

PICTURE MOULD.



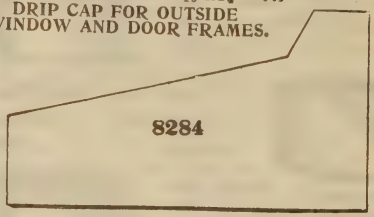
No.	Size.	White Pine or Poplar.
8263.	1⅜"x1¾"	$0.67
8264.	⅞"x1¾"	.67

PARTING STOP.



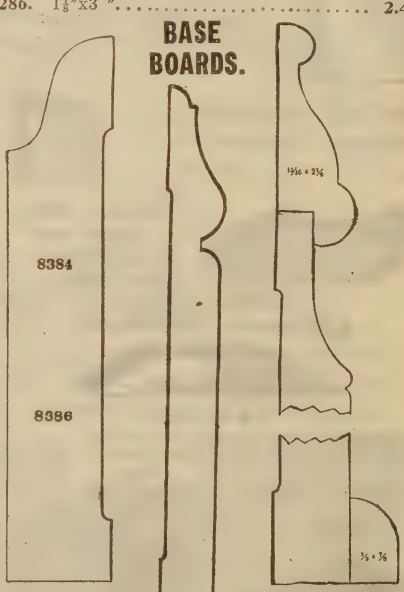
No.	Size.	Yellow Pine.	White Pine or Poplar.
8432.	½"x ⅞"	$0.30	$0.40
8281.	5/16"x1⅜"	.30	.40
8282.	5/16"x1¼"	.47	.54

DRIP CAP FOR OUTSIDE WINDOW AND DOOR FRAMES.



No.	Size.	White Pine or Poplar.
8283.	1⅛"x1¾"	$1.33
8284.	1⅛"x2 "	1.69
8285.	1⅛"x2½"	2.05
8286.	1⅛"x3 "	2.43

BASE BOARDS.

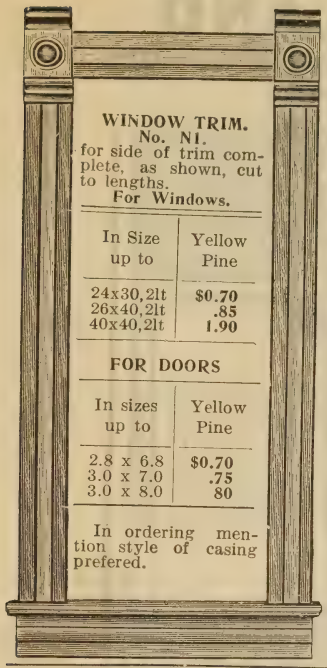


No	Size.	White Pine or Poplar.
8384.	⅞"x4½"	$1.91
8386.	⅞"x7½"	2.85
8426.	⅞"x7½"	2.85

THREE MEMBER BASE.

No.	Size.	White Pine.
8420.	⅞"x2½"	$1.10
8421.	⅞"x7½"	2.85
8422.	½"x ⅞"	.33

WINDOW AND DOOR TRIM.



WINDOW TRIM.
No. N1.
for side of trim complete, as shown, cut to lengths.
For Windows.

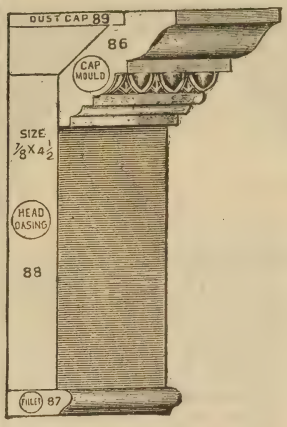
In Size up to	Yellow Pine
24x30, 2lt	$0.70
26x40, 2lt	.85
40x40, 2lt	1.90

FOR DOORS

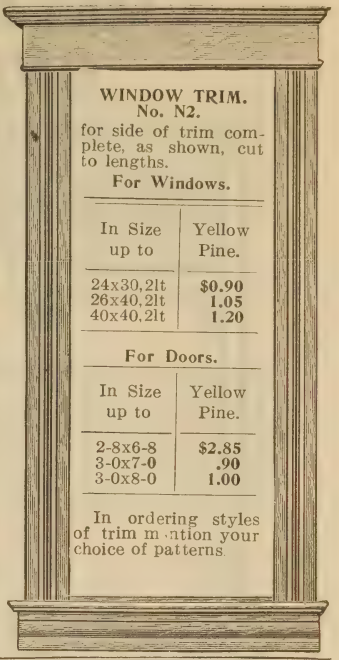
In sizes up to	Yellow Pine
2.8 x 6.8	$0.70
3.0 x 7.0	.75
3.0 x 8.0	80

In ordering mention style of casing prefered.

SPECIAL CAP TRIM.



		Price per 100 lineal ft.
No. 86.	Cap Mould	$2.15
No. 87.	Fillet	.40
No. 88.	Head Casing	2.00
No. 89.	Dust Cap	.30



WINDOW TRIM.
No. N2.
for side of trim complete, as shown, cut to lengths.
For Windows.

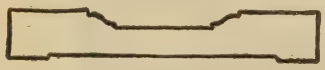
In Size up to	Yellow Pine.
24x30, 2lt	$0.90
26x40, 2lt	1.05
40x40, 2lt	1.20

For Doors.

In Size up to	Yellow Pine.
2-8x6-8	$2.85
3-0x7-0	.90
3-0x8-0	1.00

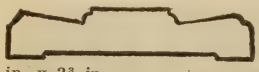
In ordering styles of trim mention your choice of patterns.

CASINGS.

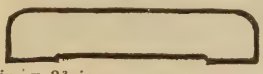


No.	Size.	Price per 100 lineal ft. Yellow. Pine.
8288.	7/8 in. x 3 3/4 in.	$1.55
8289.	7/8 in. x 4 1/4 in.	1.75
8290.	7/8 in. x 4 3/4 in.	2.00
8291.	7/8 in. x 5 1/4 in.	2.10

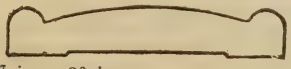
8300.	7/8 in. x 3 3/4 in.	1.55
8301.	7/8 in. x 4 1/4 in.	1.75
8302.	7/8 in. x 4 3/4 in.	2.00
8303.	7/8 in. x 5 1/4 in.	2.10



8304.	7/8 in. x 3 3/4 in.	1.55
8305.	7/8 in. x 4 1/4 in.	1.75
8306.	7/8 in. x 4 3/4 in.	2.00
8307.	7/8 in. x 5 1/4 in.	2.10

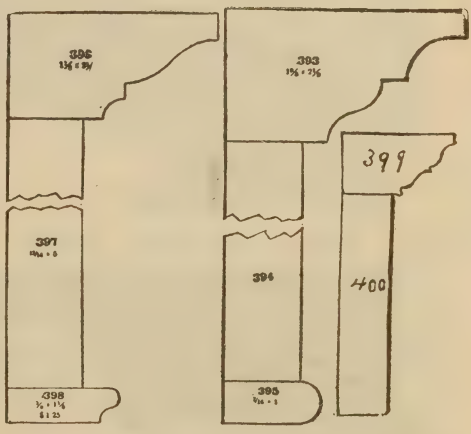


8308.	7/8 in. x 3 3/4 in.	1.55
8309.	7/8 in. x 4 1/4 in.	1.75
8310.	7/8 in. x 4 3/4 in.	2.00
8311.	7/8 in. x 5 1/4 in.	2.10



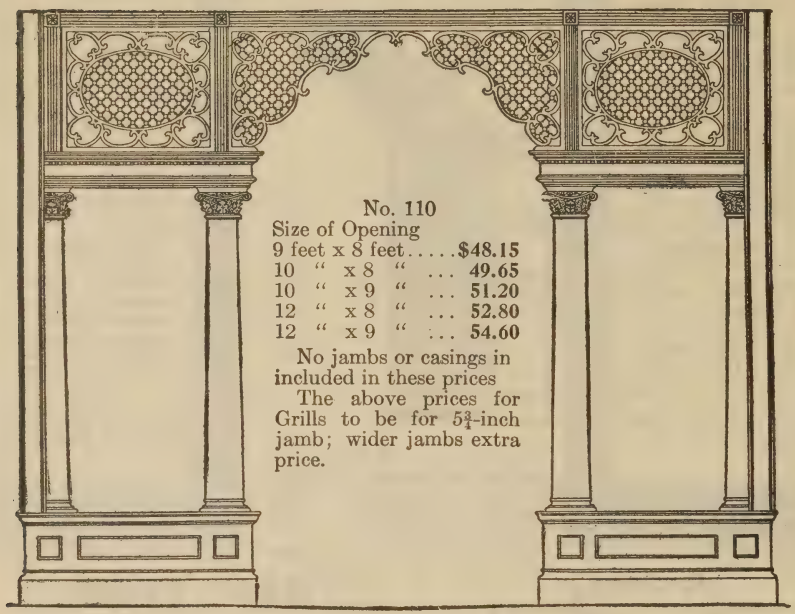
8340.	7/8 in. x 3 3/4 in.	1.55
8341.	7/8 in. x 4 1/4 in.	1.75
8342.	7/8 in. x 4 3/4 in.	2.00
8343.	7/8 in. x 5 1/4 in.	2.10

CAP TRIM.



	Size.	Price per 100 lineal ft Yellow Pine.
493	1 3/8 in. x 2 1/2 in.	$2.18
394	7/8 in. x 4 1/2 in.	2.00
395	1/2 in. x 1 1/2 in.	.30
396	1 1/8 in. x 2 3/4 in.	1.66
397	13-16 in. x 5 in.	2.20
398	3/8 in. x 1 1/8 in.	.42
399	1 3/8 in. x 2 1/2 in.	2.18
400	1 1/8 in. x 5 in.	3.48

COLLONADES AND GRILLEWORK.



No. 110

Size of Opening

9 feet x 8 feet.....	**$48.15**
10 " x 8 " ...	**49.65**
10 " x 9 " ...	**51.20**
12 " x 8 " ...	**52.80**
12 " x 9 " ...	**54.60**

No jambs or casings in included in these prices

The above prices for Grills to be for $5\frac{3}{4}$-inch jamb; wider jambs extra price.

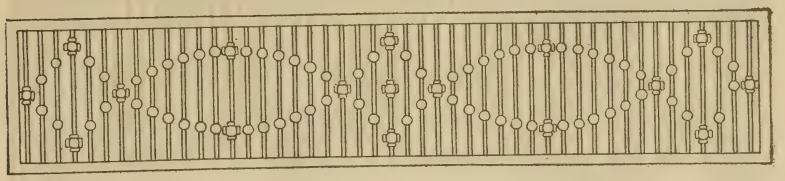
No. 111. Up to 4 ft. wide, **$4.40** Up to 5 ft. wide, **$5.30** Up to 6 ft wide, **$6.00**

No. 112 Up to 4 ft. wide, **$4.80** Up to 5 ft. wide, **$5.60** Up to 6 ft. wide, **$6.45**

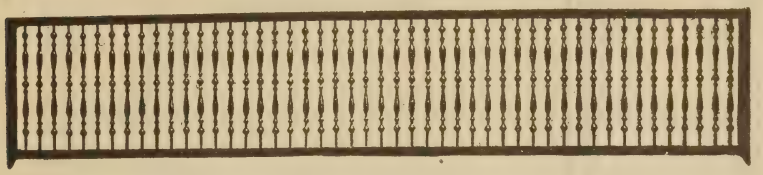
Is there anything that enhances the beauty of an interior as much as a colonade or Grill work—it will sell a house quicker than many other points no matter how good.

Prices named are for plain sawed Red Oak, unselected Birch, Ash or other woods of equal value in the white. This means that they are not oiled or varnished in any way, but left in the natural wood just as they leave the manufacturers' hands. We can furnish, however, finished in oil and varnish at an increase of 15 per cent. over prices named, and also furnish any design white enameled at an increase of 30 per cent. over prices named. Prices on larger sizes will be furnished upon application.

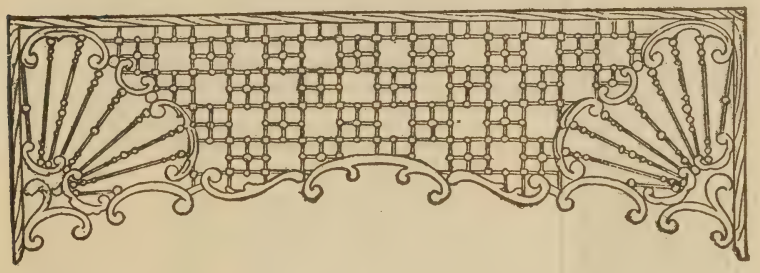
FANCY GRILLEWORK



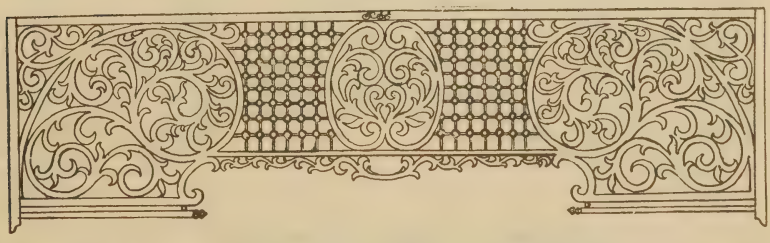
No. 100. Up to 4 ft. wide, **$2.65** Up to 5 ft. wide, **$3.00** Up to 6 ft, wide, **$3.30**



No. 101. Up to 4 ft. wide, **$4.15** Up to 5 ft. wide, **$4.95** Up to 6 ft. wide, **$6.40**



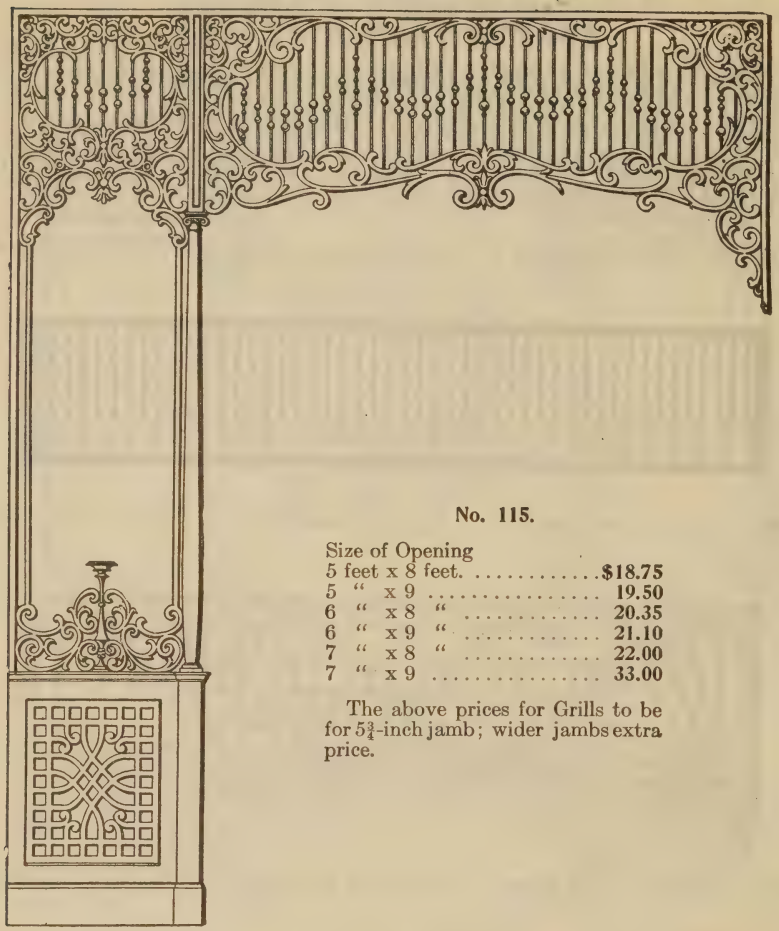
No. 102. Up to 4 ft. wide, **$4.80** Up to 5 ft. wide, **$5.60** Up to 6 ft. wide, **$6.45**



No. 103. Up to 4 ft. wide, **$5.35** Up to 5 ft. wide, **$6.15** Up to 6 ft. wide, **$6.95**

Prices named are for plain sawed Red Oak, unselected Birch, Ash or other woods of equal value in the white. This means that they are not oiled or varnished, but in the natural wood. We can furnish, however, finished in oil and varnish at an increase of 15 per cent over prices named, and also furnish any design white enamel at an increase of 30 per cent over prices named. Prices on larger sizes will be furnished upon application.

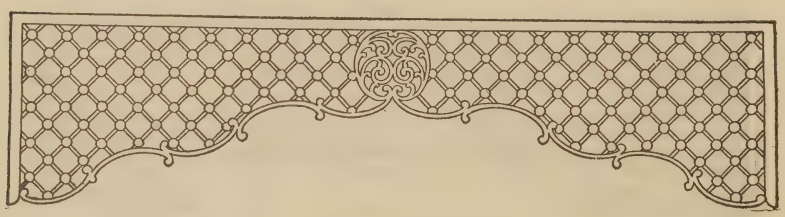
COLONADES AND GRILLEWORK



No. 115.

Size of Opening	
5 feet x 8 feet.	$18.75
5 " x 9	19.50
6 " x 8 "	20.35
6 " x 9 "	21.10
7 " x 8 "	22.00
7 " x 9	33.00

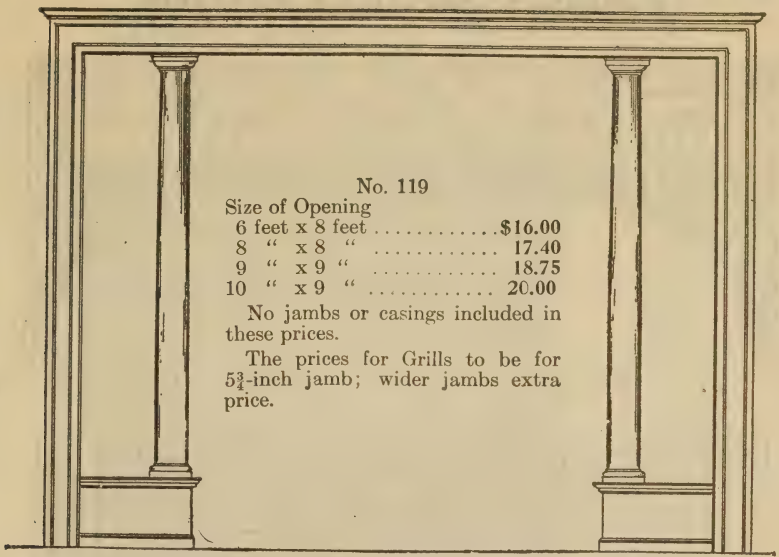
The above prices for Grills to be for $5\frac{3}{4}$-inch jamb; wider jambs extra price.



No. 116. Up to 4 ft. wide, $4.00 Up to 5 ft. wide, $4.80 Up to 6 ft. wide, $5.60

Prices named are for plain sawed Red Oak, unselected Birch, Ash or other woods of qual value in the White. This means that they are not oiled or varnished in any way, but left in the natural wood just as they leave the manufacturers' hands. We can furnish, however, finished in oil and varnish at an increase of 15 per cent. over prices named, and also furnish any design white enameled at an increase of 30 per cent. over prices named. Prices on larger sizes will be furnished upon application

COLONADES AND GRILLEWORK.



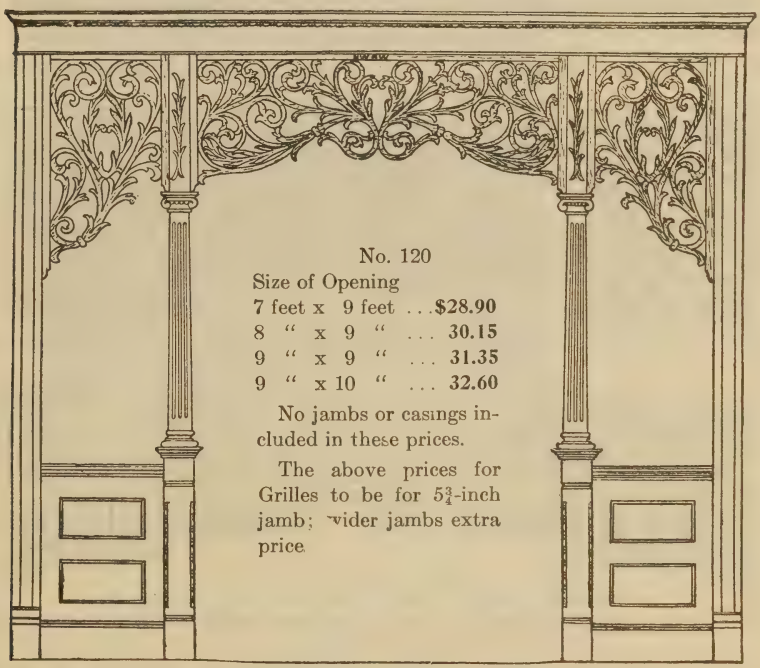
No. 119

Size of Opening

6 feet x 8 feet	$16.00
8 " x 8 "	17.40
9 " x 9 "	18.75
10 " x 9 "	20.00

No jambs or casings included in these prices.

The prices for Grills to be for 5¾-inch jamb; wider jambs extra price.



No. 120

Size of Opening

7 feet x 9 feet	$28.90
8 " x 9 "	30.15
9 " x 9 "	31.35
9 " x 10 "	32.60

No jambs or casings included in these prices.

The above prices for Grilles to be for 5¾-inch jamb; wider jambs extra price.

Prices named are for plain sawed Red Oak, unselected Birch, Ash or other woods of equal value in the White. This means that they are not oiled or varnished in any way, but left in the natural wood just as they leave the manufacturers' hands. We can furnish however, finished in oil and varnish at an increase of 15 per cent. over prices named and also furnish any design white enameled at an increase of 30 per cent. over prices named. Prices on larger sizes will be furnished upon application.

FANCY GRILLEWORK

No. 128. Up to 4 ft. wide, $4.85. Up to 5 ft. wide, $6.00. Up to 6 ft. wide, $7.10

No. 129. Up to 4 ft. wide, $3.55. Up to 5 ft. wide, $4.50. Up to 6 ft. wide, $5.40

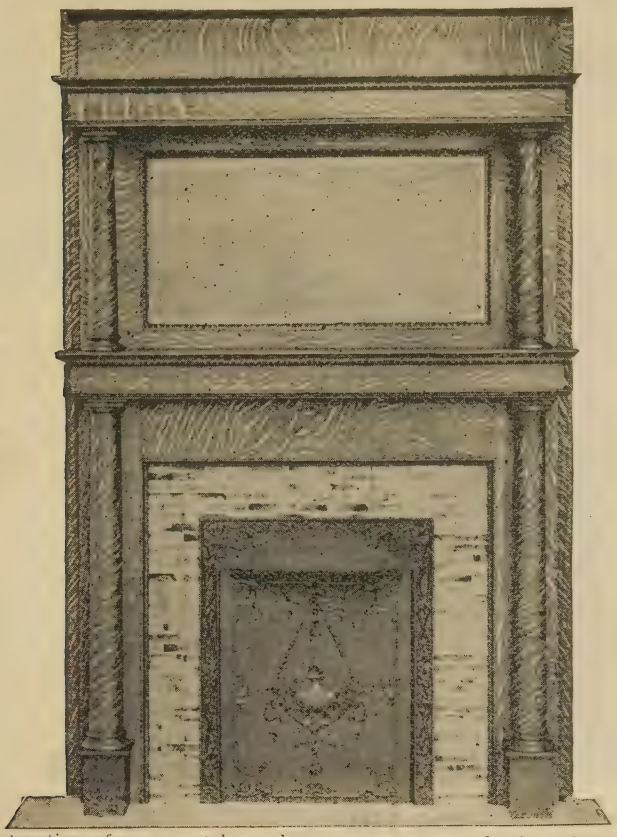
No. 130. Up to 4 ft. wide, $5.95. Up to 5 ft. wide, $6.70. Up to 6 ft. wide, $8.00

No. 131. Up to 4 ft. wide, $5.40. Up to 5 ft. wide, $6.25. Up to 6 ft. wide, $7.10

Prices named are for plain sawed red oak, unselected birch, ash or other woods of equal value in the white. This means that they are not oiled or varnished, but in the natural wood. We can furnish them, however, finished in oil and varnish, at an increase of 15 per cent over prices named, and also furnish any design, white enameled, at an increased of 30 per cent over prices named. Prices on larger sizes will be furnished upon application.

HIGH-GRADE MANTELS

Our mantels are constructed of the best grades of lumber that money can buy. Are manufactured by the most skillful workmen. All our mantels contain the latest ventilating improvements, in fact, our designs are the old style fire place brought down to date and modernized.



On this page we are offering an exceptionally high value, durable and strong, a common sense mantel which does not contain all the frills and curlycues of some of the designs which are now flooding the market. The tendency of the time is for plainness and neatness, and we believe we have succeeded in making this idea apply to the mantel illustrated on this page. It is not severely plain 'in the fullest sense of the word,not entirely without such ornaments as will increase the attractiveness of the modern home. The solid appearing well shaped columns are their chief ornament acting as a support as it were for the wide and appropriate shelves. This mantel is offered in a variety of high class woods, both with outfits No. 1 and outfits No. 2. The large size mirror is no imitation, but a real French Bevel Plate. No greater care could possibly be taken throughout the construction of our mantels, and you can rest assured when they are finally completed for shipment, that we have not paid good money for their manufacture alone, but see to it that they are crated in such a manner that they cannot possibly be damaged in transit.

No. 126

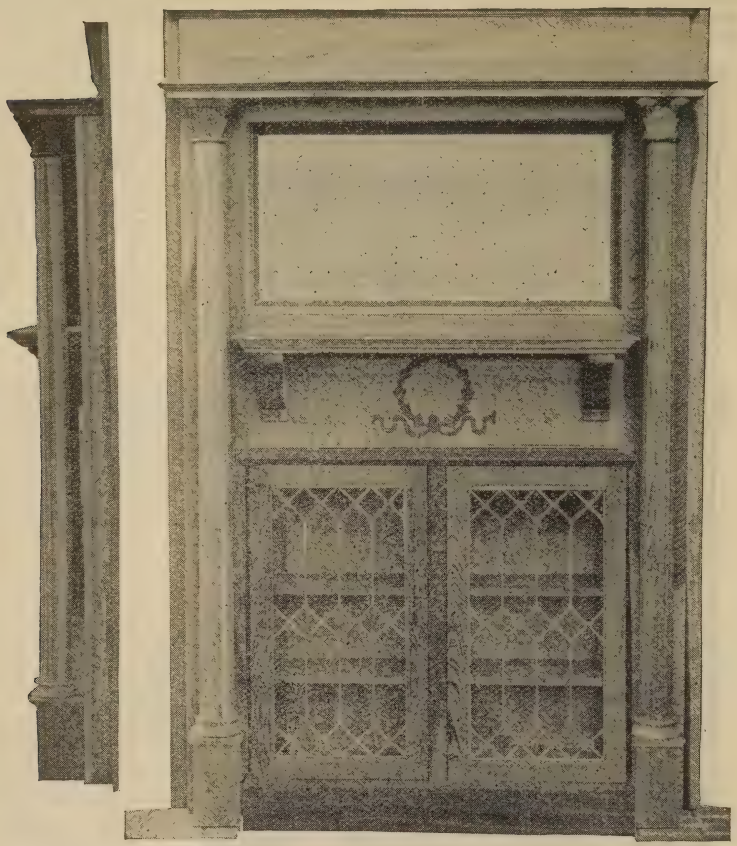
Plain and Quartered Oak and Birch Mahogany, Rubbed and Polished Finish

Height, 6 feet 11 inches. Tile opening, 36 x 36 inches.
Width, 4 feet 6 inches. Profile, 3 inches.
Loose wall-plates to make width 5 feet. Profile, 3¾ inches.
Bottom columns, 3½ inches, Tapered.
Top columns, 3 inches, Mirror, 18 x 36 inches, square.

Prices of No. 126 Mantel

With Outfit No. 1			With Outfit No. 2		
Plain Oak	Quarter Sawed Oak	Birch Mahogany	Plain Oak	Quarter Sawed Oak	Birch Mahogany
$36.90	**$39.90**	**$39.90**	**$43.25**	**$46.25**	**$46.25**

HIGH-GRADE MANTELS



No. 101

CYPRESS AND POPLAR

Unfinished

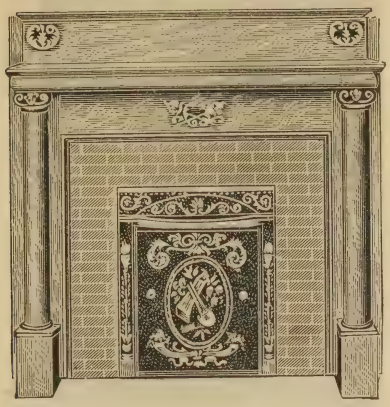
Height, 6 feet 8 inches.
Width, 4 feet 6 inches, and 5 feet. Profile, 3 inches.
Pilasters, 3½ inches face. Fluted.
Mirror, 18 x 36 inches, square. Hard metal lights, 14 x 28 inches.
Case, 9 inches deep on inside.

Price, $24.50

The mantel offered on this page is not a fire place mantel, but rather a bookcase and mantel combined. Something very novel that will appeal to the modern home furnisher. Great care has been taken so that the proportions of the different parts are correctly designed. The bookcase below affording ample space for a number of books or odd pieces of china-ware

The glass size of the doors is 14″ wide x 28″ high. The diamond and suspended lights are set in metal bars. The glass itself being clear, double strength. The mirror is real beveled plate. The mantel is offered in Cypress and Poplar wood only in the white, which means not finished For this modern design we have made the price equally modern in proportion. $24.50 covers everything complete as shown.

MANTELS and FIREPLACES.



Mantel No. 1846. There is a growing demand for mantels without mirrors and in this design we have a mantel that cannot fail to satisfy the most exacting. The massive shelf of this mantel is neatly carved and is supported by heavy columns 4 in. in diameter set off with handsomely carved capitals. Columns are veneered with the choicest quarter sawed oak. Mantel is made of selected oak finished a rich golden oak superior flow finish. Height is 4 ft. 10 in. and width 5 ft. Opening in mantel width 42 in., height 39 in. Tile projection 4 in.

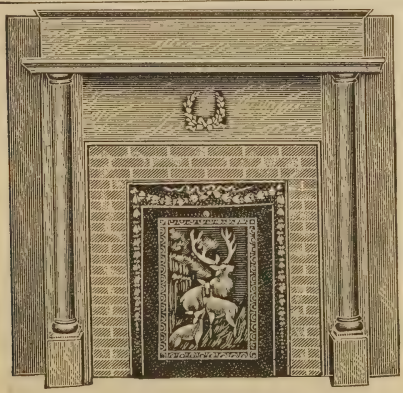
Mantel No. 1846, without tile or grates. **Price**.....**$12.75**

Mantel No. 1846, with best quality enameled tile for hearth and facing of various colors and No. 1 grade outfit which consists of combination grate ..**$23.00**

Mantel No. 1846, with tile as described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood burning grate and summer front. **Price**.....**$29.00**

Mantel No. 1846, with tile as described and No. 3 mounted gas grate. **Price**.....**$29.00**

In ordering gas grate state whether for artificial or natural gas.



Mantel No. 197. An especially neat design for Hall or Bedroom.

We recommend this design for use where an inexpensive mantel is desired. Height 4 ft. 6 in., width 5 ft. Opening in mantel width 36 in., height 36 in. Has neat columns set on pedestals and supporting a large commodious shelf. Mantel is made of oak finished in a rich golden oak, superior flow finish.

Mantel No. 197, without tile or grate **Price**.....**$7.75**

Mantel No. 197, with the best quality enameled tile for hearth and facing of various colors and No. 1 grade outfit which consists of combination grate .**$16.00**

Mantel No. 197, with tile as described and No. 2 grate outfit which consists of Chicago mounted Buckeye coal and wood burning grate including summer front.

Price.....**$22.00**

Mantel No. 197, with tile as described and No. 3. mounted gas grate.

Price.....**$22.00**

In ordering gas grates state whether for artificial or natural gas.

No. 1744. This simple little design can well be recommended for buildings when an inexpensive mantel is desired. Mantel is made of oak and finished only in a rich golden oak superior flowed finish. Height is 4 feet and width 4 feet 6 inches. Opening in mantel width 36 inches, height 36 inches. This mantel is made without tile projection.

Mantel No. 1744, without tile or grates. **Price**.....**$5.00**

Mantel No. 1744, with the best quality enameled tile for facing of various colors and No. 1 grate outfit which consists of combination grate

Price.....**$13.75**

Mantel No. 1744. with the best quality enameled tile for facing of various colors and No. 2 grate outfit which consists of Chicago Mounted Buckeye Coal and Wood burning grate including summer front.

Price.....**$19.75**

Mantel No. 1744. with enameled tile and No. 3 mounted gas grate

Price.....**$20.00**

In ordering gas grates state whether for artificial or Natural gas.

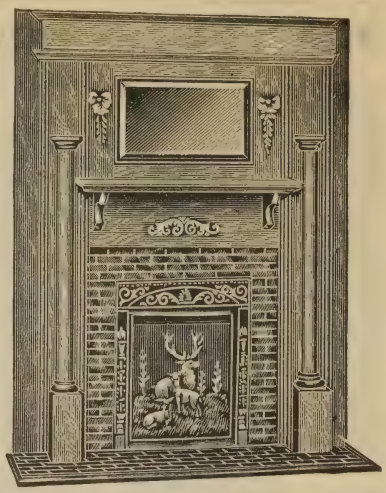
Mantel No. 1838. Regarding this mantel we need say but very little. The beauty of this design is very apparent and it never fails to appeal to the artistic eye. We particularly call attention to the gracefully tapered columns supporting the upper shelf and to the ornamental brackets under the main shelf. Mantel is made of selected oak finished only in a rich golden oak superior flowed finish Columns are veneered with the choicest quarter-sawed oak. Mirror is heavy bevel plate 14x24 in. square. Height of mantel is 6 ft. 5 in., width 5 ft. Opening in mantel is width 36 in., height 36 in. Tile projection 3 in.

Mantel No. 1838, without tile or grate.
Price.....$12.50

Mantel No. 1838, with the best quality enameled tile for the hearth and facing of various colors and No. 1 grate outfit, which consists of combination grate **Price**.....$21.50

Mantel No. 1838, with tile as described and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate including summer front. **Price**.....$29.00

Mantel No. 1838, with tile as described and No. 3 mounted gas grate. **Price**.....$29.00



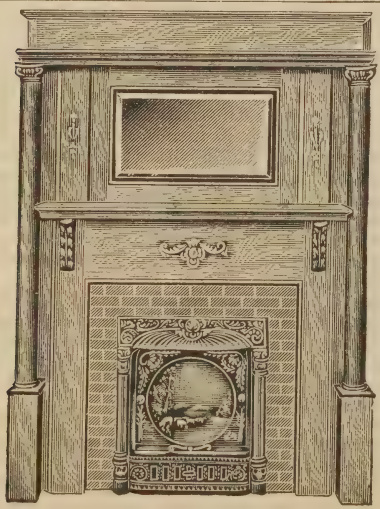
Mantel No. 157. This mantel is somewhat out of the ordinary and cannot help but make a good impression anywhere you put it. The proportions are correct and the little shelves set on the three-quarter length afford ample space for small pieces of bric-a-brac. The main shelf is supported by two plain, but neat brackets. The mirror is heavy bevel plate 14x24 in. square. Mantel is made of selected oak, finished only in a rich golden oak superior flowed finish. Height is 6 ft. 4½ in. and width 5 ft. Tile opening is; width 36 in., height 36 in. Tile projection 3⅛ in.

Mantel No. 157, without tile or grate.
Price.....$16.50

Mantel No. 157, without the best quality enameled tile for the hearth and facing of various colors and No. 1 grate outfit, which consists of combination grate **Price**.....$26.00

Mantel No. 157, with tile as described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front. **Price**.....$32.50

Mantel No. 157, with tile as described and No. 3 mounted gas grate. **Price**.....$32.50



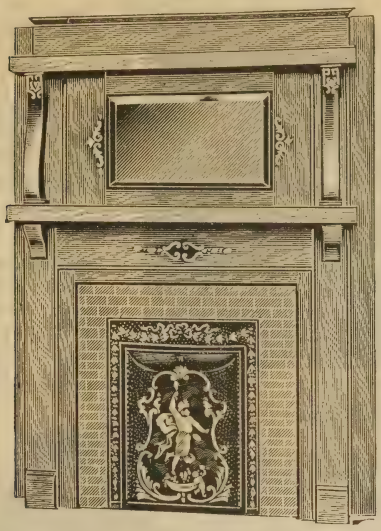
Mantel No. 1882. This mantel is a general favorite and should not be overlooked in making a selection. Made entirely of selected oak finished only in a rich golden oak superior flow finish. Particular attention is called to the handsomely carved capitals supporting the upper shelf and the carved brackets under the main shelf. Mantel is made 6 ft. 10 in high and 5 ft. wide. Opening in mantel is: width 36 in., height 36 in. Tile projection 4 in. Mirror is heavy bevel plate 16x28 in. square.

Mantel No. 1882, without tile or grate.
Price.....$19.25

Mantel No. 1882. with the best quality enameled tile for hearth and facing of various colors and No. 1 grate outfit, which consists of combination grate and **Price**.....$28.00

Mantel No. 1882, with tile as above described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front. **Price**.....$32.50

Mantel No. 1882, with tile as above described and No. 3 mounted gas grate. **Price**.....$32.50



This mantel is made selected oak finished in our high grade gloss finish. It is a unique design of highly pleasing outlines; the quarter-sawed effect on the front of shelves and pilasters giving it a very rich appearance.

Special attention is called to the neat and attractive carvings on the face of the pilasters, also to the heavy veneered brackets underneath the main shelf.

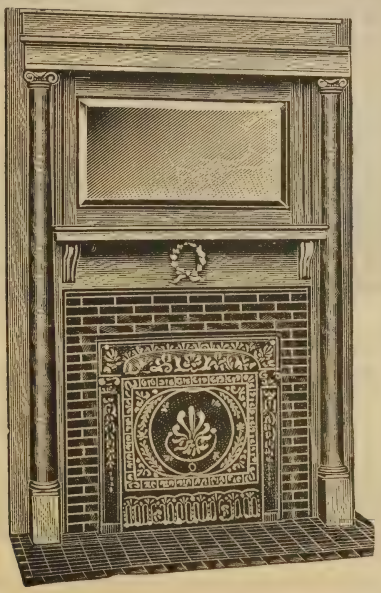
Mantel No. 11204. Height 6 ft. 7¼ in., width 5 ft. Opening in mantel 36x36 in. or 42x39 in. French beveled mirror 14x24 in. Tile projection 4 in.

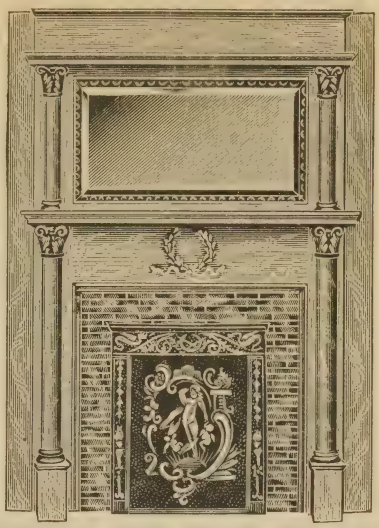
Mantel No. 11204 without tile or grate. **$19.00**

Mantel No. 11204, with the best quality enameled tile for hearth and facing of various colors and No. 1 grate outfit, which consists of combination grate **Price.....$29.00**

Mantel No. 11204, with tile as described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front. **Price.....$35.00**

Mantel No. 11204, with tile as described and No. 3. mounted gas grates. **Price.....$35.00**





Mantel No. 1209. This artistic design is without question the best value at the price asked that has ever been put on the market. The mantel is made of selected oak finished in a rich golden oak superior flow finish. Columns are 3 in. in diameter, veneered with the best of quarter-sawed oak and have handsomely carved capitals. We call particular attention to the heavy top shelf giving this mantel a rich massive appearance and still retaining the correct proportions. Mirror is large beveled plate 18x36 in. square. Height 6 ft. 8 in., width 5 ft. Opening in mantel: width 36 in., height 36 in. Tile projection 3 in.

Mantel No. 1209, without tile or grate.
Price.....$20.00

Mantel No. 1209, with the best quality enameled tile for the hearth and facing of various colors and No. 1 grate outfit, which consists of combination grate **Price.....$30.00**

Mantel No. 1209 with tile as above described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front. **Price.....$35.00**

Mantel No. 1209, with tile as above described and No. 3 mounted gas grate.
Price.....$35.00

In ordering gas grate, state whether for artificial or natural gas.

Mantel No. 11339. In this mantel we have a design that is especially well adapted for use in parlor, hall or dining room. It is made of carefully selected oak finished in a rich golden oak, superior flow finish. The top frieze and frieze above tile are made of handsomely figured quarter-sawed oak. Columns are 3½ in. in diameter and veneered with the choicest quarter-sawed oak. The massive boxed upper shelf is supported by full length columns, set with neat carved capitals. Mirror is heavy beveled plate 18x36 in. square. Mantel is made 7 ft. high and 5 ft. wide. Opening in mantel: width 42 in., height 39 in. Tile projection 3 in.

Mantel No. 11339, without tile or grate.
Price.....$23.50

Mantel No. 11339, with the best quality enameled tile for the hearth and facing of various colors and No. 1 grate outfit which consists of combination grate **Price.....$34.50**

Mantel No. 11339, with tile as above described and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front **Price.....$40.00**

Mantel No. 11339, with tile as above described and No. 3 mounted gas grate. **Price.....$40.00**

GRATE OUTFIT No. 1.

Interior View of No. 13570 Combination Grate.
Showing how Basket Hangs on Frame.

No. 13570. Combination grate, wrought iron finish, without summer front.
Price grate only.....$2.35
Shipping weight 85 pounds.

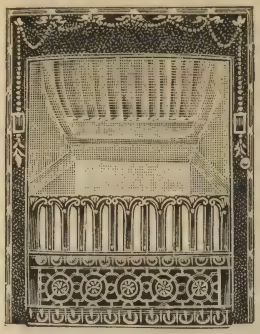
Front View of No. 13570 Combination Grate.
Showing Summer Front in Position.

24½ in. wide, 30¼ in. high, fire basket 20 in. wide, 7 or 9 in. deep. **Outfit No. 1** consists of:

Fireplace—No. 13570 Combination grate; black wrought iron finish; 24½ in. wide, 30¼ in. high, with 20 in. Berlin black basket, 7 or 9 in. deep, without summer front.

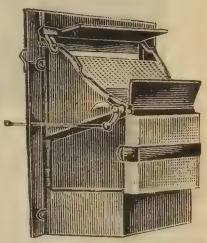
Facing—Best quality enameled tile (any color).

GRATE OUTFIT No. 2.



Interior View of No. 10510 Chicago Mounted Buckeye Grate.

No. 10510.
Chicago Mounted Buckeye Grate, wrought iron finish.
Price grate only.....$8.15
Shipping weight 200 pounds.



Side View of No. 10510 Chicago Mounted Buckeye Grate.
Showing double draft damper arrangement.

A good serviceable double draft grate, single basket front, suitable for soft coal, hard coal or wood; has tile fire back, iron sides to air chamber which prevent burning out, with dumping bottom.

For a medium priced fireplace, they have no equal in either finish, construction or weight.

All made with our patented loose cross piece, which prevents cracking or warping.

All mounted ready for use, one grate in a case.

Front View of No. 10510 Chicago Mounted Buckeye Grate.
Showing Summer Front in Position.

24½ in. wide, 30¼ in. high. Fire-pot 20 in. wide, 12 in. deep.
Outfit No. 2 consists of:

Fireplace—No. **10510.** Chicago Mounted Buckeye Grate, black wrought iron finish, 24½ in. wide, 30¼ in. high, 20 in. fire-pot, 12 in. deep, with dumping bottom.

Hearth—60x21 in.; best quality enameled tile (any color).

If Summer front is wanted with Outfit add $1.00 extra.

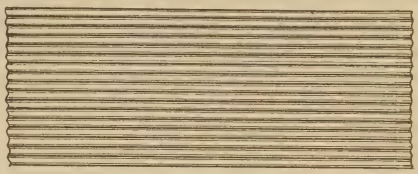
This outfit can also be had with a plated frame and summer front for $1.00 extra.

Outfit No. 2 can also be had 30½ in. wide by 30¼ in. high with 24 in. basket for 50c extra.

CHICAGO HOUSE WRECKING CO. 35TH & IRON STS, CHICAGO. 5

STEEL AND IRON ROOFING, CEILING AND SIDING IN THE FOLLOWING STYLES.

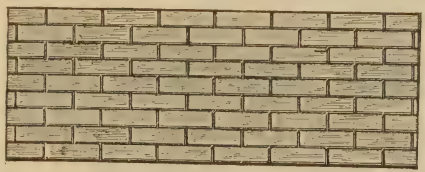
FLAT SHEETS



CORRUGATED SHEETS

"V" CRIMPED SHEETS

PRESSED STANDING SEAM SHEETS



IMITATION PRESSED STEEL SIDING.

BEADED SIDING AND CEILING.

FOR DESCRIPTION & PRICE SEE FOLLOWING PAGES.

STEEL AND IRON ROOFING, Siding and Ceiling.

There is no question but what the use of Steel and Iron Roofing has demonstrated its superiority over any other roof covering. It has numerous points wherein it excels all other coverings, and has practically no faults. Its particular points of advantage are

Price, Endurance, Simplicity.

It is cheaper than shingles, and almost on an equal basis, as regards price, with felt or tarred roofing. A great many fires originate on a shingle roof; this one special point is reason enough to show its vast superiority. Again, the quality of the shingles that are being used today is such as to place them very much in disfavor.

As compared with slate roofing, it is very much the best; the slate roofing requiring a steep pitch and a heavy, expensive structure to support it, and will weigh almost seven (7) times as much as the steel roofing.

Steel and Iron Roofing is lightning and fire proof. It is easy to lay, requiring no practical experience, and in laying the corrugated, "V" crimped or flat, no other tools than a hatchet or hammer are required.

Our prices noted in this catalogue on this Roofing and Siding are all **Net Spot Cash, F. O. B. Cars, Chicago,** except on certain new grades of roofing as explained on page 9. Do not be confused on this point. Upon application, we will make you freight prepaid prices on any of the grades we are offering.

Our Quotations Do Not Include Lap.

These sheets are used for such a variety of purposes that it is impossible for us to compute the amount necessary for Lap. It varies in amount from 6 to 10 per cent. In ordering this material, be sure you include sufficient to take care of the Lap. On corrugated sheets, it is advisable to lap one full corrugation on the side of the sheet and one inch on the end of the sheet, requiring thus about 110 square feet of the corrugated material to cover 100 square feet of surface.

We have this material in various styles, as follows:

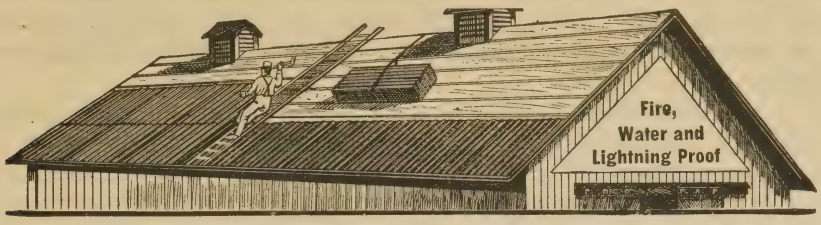
For Roofing, Lining, Ceiling, Sheathing, Etc.

Flat Sheets, Corrugated Sheets, "V" Crimped Sheets, Imitation Pressed Brick Siding, Standing Seam Sheet, Beaded Siding and Ceiling.

No tools except a hatchet or hammer are needed for any of these styles, but for laying the Standing Seam Roofing, you will need a Seamer, price $1.50; Snips, price $1.00; Jointer, price 50c. Total, $3.00.

We will furnish these tools and give you the privilege of returning same after you are through using them, provided you will pay freight or express charges on them; but all orders sent us for these tools must include their price, the amount to be returned after we receive them back. Our quotations are for 100 square feet, meaning one square.

STEEL AND IRON ROOFING.



ROOFING AND SIDING. BRAND NEW MATERIAL.

No. 10. Light, strictly new, perfect, high grade, semi-hardened steel sheets; the best material ever offered you for the money. The sheets when flat are 24 inches in width and either 6 or 8 feet in length. This material is furnished painted red two sides before shipment and also furnished unpainted. Corrugated and "V" crimped Seam is 22 inches in width, and we charge only for the actual size of the sheets ready for shipment

Price, per square, unpainted—Flat.....$1.60
Corrugated, or "V" Crimped..... 1.85
Price, per square, painted—Flat..... 1.75
Corrugated, or "V" Crimped..... 1.95

No. 15. Exactly the same as the No. 10, except that the size of the sheets is 24 inches by 24 inches flat; when corrugated or "V" crimped, 22 inches by 24 inches. It is brand new, painted red two sides and also furnished unpainted.

Price, per square, unpainted—Flat.....$1.50
Corrugated, or "V" Crimped..... 1.75
Flat, per square, painted..... 1.60
Corrugated, or "V" Crimped..... 1.85

No. 11. Description exactly the same as the No. 10, with the exception that these plates are considerably heavier and are extra hard and suitable for long service.

Price, per square, unpainted—Flat.....$1.85
Corrugated, "V" Crimped or Standing Seam..... 2.10
Price, per square, painted—Flat..... 1.95
Corrugated, "V" Crimped or Standing Seam..... 2.20

No. 18 Grade. Galvanized Unpainted. Here is a roofing which for lasting qualities has no equal. It is heavily galvanized and we ship it unpainted. It is something that will stand tough climatic conditions, better than any other kind. You can give it a coat of paint after it is on your roof. The sheets when Flat are 26 inches wide and 6 feet long, and when Corrugated or "V" Crimped the sheets are 24 inches wide and 6 feet long. Now, it is easier to handle 6 ft. sheets than any other size, and it is the most popular grade of roofing we have for sale. It is light weight, but there is just as much galvanizing on this roofing as there is on the heavier galvanized roofing. We recommend it for roofing, ceiling and siding. Prices as follows:

Flat, per square.....$3.00
Corrugated, per square..... 3.25
"V" Crimped, per square..... 3.25

SECOND-HAND ROOFING AND SIDING MATERIAL.

The following material is not new, and is quoted free on board cars, Chicago. We do not pay the freight.

No. 1. 2,000 squares, 2½-inch corrugation. 22 gauge; 20 to 30 ins. wide and 4 to 8 ft. long; perfect, free from nail holes. Painted black, two sides.

Per square.....$2.75

No. 3. 6,000 squares, 2½-inch corrugation. Comes 24 to 27 gauge; 22 to 28 inches wide and about 3 to 8 feet long. With occasional nail holes; painted black two sides. No orders accepted for sheets of specified sizes; shipments made mixed only.

Per square.....$1.65

No. 3½. Just the same as No. 3, but free from nail holes.

Price, per square.....$1.85

No. 4. 3,000 squares galvanized, free from nail holes. 2½-inch corrugation. Gauges from 24 to 27. Sheets 3 feet to 8 feet long and from 20 to 28 inches wide. No orders accepted for sheets of specified sizes; shipments made mixed only.

Price, per square.....$2.85

No. 6. 10,000 squares, 2½ inch corrugation. 24 gauge. 2 feet by 5½ feet. Painted black, two sides; perfect, free from nail holes.

Price, per square.....$2.25

No. 17. 2,000 squares painted steel, 1¼-inch corrugation. 28 gauge. 16 inches wide by 24 inches long. Absolutely first class.

Price, per square.....$1.60

A SQUARE OF ROOFING MEANS 100 SQUARE FEET.

BEADED SIDING AND CEILING.

This material is made from the best quality semi-hardened steel sheets. Our cut (page **77** shows the style that we furnish. It is adapted for all purposes such as Public Halls, Warehouses, Factories, Stores, etc.

The sheets when beaded cover 22 inches from center of outside bead, and are furnished in 6 and 8 foot lengths. These beads are small corrugations $\frac{5}{8}$ inches wide by $\frac{3}{8}$ inches deep. No special tools are necessary in applying this material. The sheets should be lapped one or two inches at the end and over one crimp at the sides. They can be put on either perpendicular or horizontally, and can be laid directly on studding or boards placed the proper distance apart, or it can be put on over old plaster.

STEEL PRESSED BRICK SIDING.

Brand New.

Made of the best grade of annealed sheet steel, and is an excellent imitation of pressed brick; easy to apply and rich and handsome in appearance. Each sheet is painted red both sides before shipment or furnished unpainted. Size of sheets, 24 inches by 68 inches.

Price, per square, unpainted..... **$2.00**
Price, per square, painted..... **2.10**

Extra for Nails, Paint, etc.

All prices on Steel and Iron Roofing, Siding and Ceiling, are made without nails, paint, "V" sticks or tin cleats. We charge extra for these items as follows:

Nails, per square..... **$0.05**
"V" Sticks for under "V" Crimped Roofing, per square..... **.10**
Tin Cleats for use in laying standing Seam Roofing, per square. **.10**
Dry paint, either Red or Black, per square..... **.05**
Ready Mixed Roofing Paint, in buckets of 5 or 10 gallons,
Red or Black, per gallon..... **.44**
In 1 gallon cans, per gallon..... **.55**
In half-barrels of 25 gallons, per gallon..... **.37**
In barrels of 50 gallons, per gallon..... **.33**
Lead Washers, per square..... **.10**

One gallon of this ready mixed paint is enough for $2\frac{1}{2}$ squares, one coat one side.

Special Freight Prepaid Notice.

All Steel and Iron Roofing, Siding and Ceiling, quoted on pages **79** and **80** except the second-hand, will be shipped freight prepaid to all points east of Colorado, not including Oklahoma, Texas and Indian Territory. Our price to Oklahoma, Texas and Indian Territory is 15c per square additional. Our price to all other western points is 50c per square additional. Do not confuse this proposition with any other section of our catalogue, as all other prices quoted in this book, including the second-hand roofing page **79** are strictly F. O. B. cars Chicago.

DIRECTIONS FOR APPLYING PRESSED STANDING SEAM ROOFING.

Snip and then turn end locks with jointer by bending one end of sheet up and the other down. Commence laying at right hand corner and eave of building. Flatten right hand cap of first course and lay left hand cap to a chalk line. Let the bottom sheet project over eave and end of building 1 inch or more. Bend down projecting portion of sheet and nail to the end and eve of building, or if there are fire walls turn sheet up 4 to 6 inches, nail securely and counter-flash. Use two cleats on ends and one every 12 or 14 inches on sides. Continue laying the sheets until upper part of roof is reached. If a comb roof, allow 1 inch on one side and 2 inches on the opposite side to form a standing seam along the ridge.

Start next course (with the piece, if any, which was cut from the last sheet laid at comb) with flanges of sheets overlapping the first course, press down, turn the ends of cleats over, and then press the seam together with tongs; this finishes seam. Continue until roof is covered.

The comb is made by turning up one side 1 inch and the other side 2 inches, first flattening standing seam for 6 or 8 inches back from comb. Anchor the 1-inch side with cleats, and then turn the 2-inch side over the 1-inch, fold the cleat back over the top and press together with tongs. This makes standing seam along the comb. Hips are made in the same way after cutting to the right angle.

HOW TO LAY THE CORRUGATED IRON ROOFING.

Begin to lay the sheets from the eaves, the first covering the lower left hand corner projecting one corrugation over the side and from 2 to 4 inches over the eaves. Hammer the projecting side corrugation down against the edge of the sheathing, nailing it in place. Nail across the sheet near the eaves through the tops and alternate corrugations.

Place second sheet to the right of the first, lap over one corrugation of the first sheet and with the same amount of eave projections. Nail the sheets where they lap and directly perpendicular through tops of the corrugation and about 8 inches apart Nail also left to right across the entire length of the roof, then begin at the right to lay the second row in the same manner as first and so continue until the entire roofing is laid.

When nailing across the lower ends of the sheets in the second row, put the nails so they will pass through both the first and second row, etc.

HOW TO LAY THE CORRUGATED SIDING.

Begin at the left hand corner in applying the corrugated from base to cornice, giving the sheets from 1 to 2-inch lap at the end and one corrugation lap at the side. Nail side lap every 6 inches and end lap in every other corrugation with 2½-inch corrugated, and in every third corrugation with 1¼-inch corrugated, driving the nails through the top of the corrugation. Care should be taken that the iron is kept a few inches from the ground. It is usually best to have the base-board 6 to 12 inches wide partially covered with plain iron for the bottom.

HOW TO LAY THE "V" CRIMPED ROOFING.

This material may be laid over sheathing, shingles, etc., or laid on directly to the rafters. Our Nos. 10, 11 and 12 grades are 22 inches from center to center. It can be used on any roof having a pitch of more than 2 inches to the foot. The ends of the sheets can either be lapped from 1 to 3 inches or put together with lock joint. To make the lock joint, take a pair of tinner's snips and cut in ⅝-inch near the crimp, and on each end of the sheet, turn one end under and one end over, and when placed together on the roof, put the joint down closer.

In laying the material, begin at the left hand corner of the eave and end of the building, and lay the sheets from the eave to the ridge, and nail through the crimp every 8 inches. At the end laps, use four nails to the lap.

FOR PUTTING ON BRICK SIDING OVER SHEATHING.

Take a level and chalk line and strike level of the building.

Place a sheet of siding at one corner of the building, allowing the end to extend 2 feet past the corner so that the cross grooves are immediately over the corner, the lower edge of the sheet resting on the chalk line.

Nail the sheet fast to the wall through the grooves sufficiently to hold it fast and to bring it down solid all the way along. Begin at the middle of the sheet to nail and work toward ends and sides, placing nails two or three bricks apart. Never nail through the brick.

Bend the projecting 2 feet around the corner (if projects) with the hands or with a piece of board, using a mallet slightly to bring down any uneven places.

Lay around the building until you meet the commencement. Place the first sheet of the second tier over the first so as to break joints perfectly as in brick work, leaving the half groove at the bottom of the sheet lap over the first and fit closely in the half groove at the top of the first sheet.

RUBBERIZED GALVO ROOFING

The Best "Ready" Roofing Manufactured. Fire-Proof and Water-Proof. Easy to Lay. Can Be Put on Over Old Shingles. Does Not Require Coating.

It is of a very superior quality, unexcelled for wear, durability and economy.

This roofing is purchased by us direct from manufacturers. It is the regular grade made by them, with the exception that instead of a continuous piece, as a roll of roofing ordinarily comes, it is put up in two to five pieces to the roll. This does not affect the quality one bit, as the fact that it is in more than one piece certainly does not lessen its quality or make any difference in its appearance.

We guarantee there is no higher grade roof covering made in this country than what we are offering. For confidential reasons we are not allowed to tell you the name of the manufacturers. This roofing is far superior to the cheap brands of ready roofing offered for sale.

Rubberized Galvo Roofing is slate color, tough leather-like material. It is made of a combination of wool felt and highest grade of natural asphalt. It is water-proof, lightning-proof and fire-proof. Water runs off it like it does off a duck's back. It will not taint rain water. It makes buildings warmer in winter and cooler in summer. It is not affected by acids, alkalies or gases. It has a rubbery surface and on this account we call it Rubberized Galvo Roofing. It does not contain coal tar, residuum nor anything that will deteriorate in the weather. It is composed of the highest grade of natural asphalt known.

It will positively give lasting service. It will wear as long as the building stands, provided you give it ordinary care. It does not require a coating after it is on the roof. It toughens and hardens with age. About a year after laying it we would recommend that you give it a coat of good mineral paint and every few years repeat the operation.

We furnish with each order sufficient cement to make the laps and large head nails to put it on with. Anyone with an ordinary hammer can lay this roofing. You can put it on over shingles without removing same. It is scientifically manufactured to take care of the laws of contraction and expansion. It requires but little time to put it on your roof. Two men can easily lay twenty squares a day.

It is appropriate for any kind of a building either factory, dwelling, barn, store, church, etc. It is also used as siding or lining, especially the lighter grades.

It is put up 108 sq. ft. to the square. Some rolls are put up one square and some two squares to the roll. You can lay it from left to right or from eave to comb, whichever is the easiest to apply. We recommend that it be put on opposite to the run of the sheeting.

We can furnish this material in the following plys:

1-Ply Rubberized Galvo Roofing.

Adapted for out-houses and all buildings for which an inexpensive covering is desired. Weighs about 35 lbs. to the square. Our price per square **$1.25**

2-Ply Rubberized Galvo Roofing.

For dwellings, factories, warehouses, and in fact for all general roofing purposes. Weighs 45 lbs. to the square. Our prices per square **$1.40**

3-Ply Rubberized Galvo Roofing.

For large buildings and unusually severe conditions. Will outlast any ready roofing manufactured. Weighs 55 lbs. to the square. Our price per square **$1.75**

These prices include nails and sufficient cement to make the laps.

We also have several hundred squares of this material in one-half ply, suitable for lining purposes. It weighs about 27 lbs. to the square. Each square contains 108 square feet. It is useful for lining and siding purposes. Also can be used for roofing on temporary buildings. We quote it per square without supplies ..... **80 cts**

Where cement and nails are required, our price per square is **$1.05**

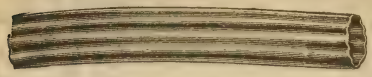
Quotations are F.O.B. Cars, Chicago.

We are discontinuing all other grades of ready roof covering and are only quoting the above. We know absolutely by this we are best serving the interests of our customers, and are offering them ready roofing far superior to tar felts or to the regular grade of so-called ready roofing on the market.

Remember, the only reason we can make you these extremely low prices is on account of the special arrangements we have with manufacturer and because this roofing is not in one continuous piece. You are getting quality at a bargain price. The additional labor for the laps is so small that it can be no possible objection. As our stock is not very large we must make all quotations for acceptance within the next forty days, and subject to prior sale.

Eave Troughs, Conductor Pipe, Etc.

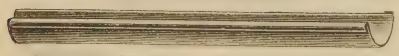
CORRUGATED CONDUCTOR PIPE.



No. 2401. Made of 28 gauge galvanized iron, one piece 10′ long, will not burst even if full of ice. We advise that you use 2 in. conductor pipe with 3½″ and 4″ eave trough. 3″ conductor with 5 ″eave trough, 4″ or 5″ conductor for 6″ eave trough. In full lengths only.

Size.....	2	3	4	5	6
Per Length	**$0.32**	**$0.38**	**$0.50**	**$0.65**	**$0.80**

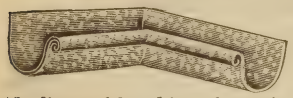
GALVANIZED EAVE TROUGH SLIP JOINTS.



No. Made of 28 gauge galvanized iron, in one piece 10′ long. Ends fitted with patent slip joints, require no soldering. Furnished only in full lengths..

Size inches.....	3½	4	5	6
Price per Length	**$0.30**	**$0.32**	**$0.40**	**$0.50**

EAVE TROUGH CORNERS.



Slip joints, made of 28 gauge galvanized iron. Menlines of bead is to be on inside or outside.

Size inches.....	3½	4	5	6
Price each	**$0.16**	**$0.17**	**$0.18**	**$0.20**

FITTINGS FOR EAVE TROUGH.

A shows section of eave trough fitted with drop outlet and slip end cap. B shows the slip end cap only. S shows drop outlet cap. With these fittings with slip joint eave trough, anyone can easily put up eave trough and conductor pipe.

GALVANIZED END CAPS.

No. 2405.

Made with slip joint to close up the end of trough, can be used either right or left hand.

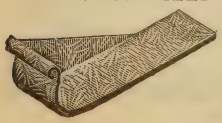
Size inches 3½.	Price each.....	$0.05
" " 4	" "	.06
" " 5	" "	.07
" " 6	" "	.08

GALVANIZED DROP OUTLETS.

No. 2406. Consists of a short section of eave trough about 6″ long with drop outlet soldered on.

Size 3½ with 2″ drop outlet.....	$0.10
" 4 " 2″ " "	.11
" 5 " 3″ " "	.12
" 6 " 4″ " "	.13

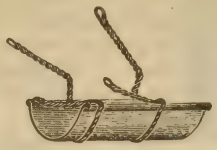
GALVANIZED SLIP ENDS.



No. 2414. To be used with galvanizedroof gutter.

14″ gutter.....	$0.17
20″ "	.18

EAVE TROUGH HANGERS.



Wire eave trough hangers made of galvanized steel wire.

Size in.	Per doz.
3½.....	$0.09
4	0.10
5	0.12
6.....	0.13

GALVANIZED IRON ELBOWS.

No. 1 No. 2 No. 3

Style No. 3 furnished unless other style specified.

No. 2407.

Size	Price
2.....	$0.11
3.....	.13
4.....	.17
5.....	23
6.....	.27

CONDUCTOR PIPE SHOE.

No. 2408

Size inches	2	3	4	5	6
Price each	**12c**	**15c**	**20c**	**25c**	**32c**

RAIN WATER CUT OFFS.

No. 2410. Made of galvanized sheet iron fitted with safety spring so you can turn the flow of water from one pipe to another.

Size inches	2	3	4	5	6
Price	**15c**	**16c**	**21c**	**39c**	**48c**

GALVANIZED ROOF GUTTERS.

Made of 28 gauge steel beaded and joined with improved slip joints. Anyone can put it on. Requires no soldering. Made in 10′ lengths in one piece, illustration shows slip ends in position, prices are for gutter only. Furnished in full lengths only.

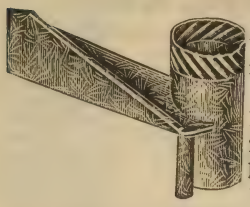
No. 2412. 14″ girt, roll 3″ high, flat surface 9″.

Price per Length.....$0.75

No. 2413. 20″ girt, roll 4″ high, flat surface 13″.

Price per length.....$1.10

GALVANIZED SPOUT ENDS.



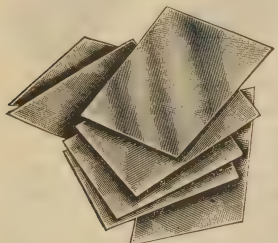
No.2415. To be used with galvanized roof gutter.
14″ gutter 2″ outlet.
Each.....$0.18
20″ gutter 3″ outlet.
Each.....$0.20

GALVANIZED WIRE STRAINERS.

Size in.	Price each
2	$0.04
3	.05
4	06
5	.08

No.2409

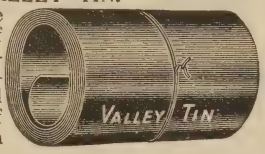
TIN SHINGLES AND FLASHINGS.



No. 2417. Made of Roofing tin. Made for repairing old roofs and making tight joints around chimneys.

Size 5″x 7″ price per 100 shingles.....$0.90
Size 7″x10″ price per 100 shingles..... 1.90

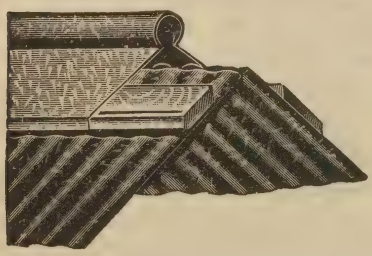
VALLEY TIN.



No. 2418. Made of high grade of tin plate in a continous strip; locked and soldered full lengths of 50′. Can furnish any length.

Width inches.	Price per roll 50 ft.	Price per lineal ft.
14	$2.10	$0.04½
20	2.90	.06
28	4.25	.09

GALVANIZED RIDGE ROLL.

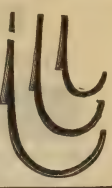


A neat waterproof cap for the ridge of roofs. 10″ lengths. We do not furnish cut lengths. Price is for Galvanized Ridge Roll only. Does not include wood strip as shown in illustration.

Size of Roll.	Width of Apron.	Girt.	Per ft.
1½″	2″	8″	$0.03½
2″	2½″	10″	.04
3″	3½″	15″	.05½

CONDUCTOR HOOKS.

Malleable Iron Turned.



Size inches	Price per dozen
2	$0.12
3	.16
4	.24
5	.30
6	.40

ROOFING BRUSHES.

Lot No. 42. 2 knot new brushes, made expressly for roofing cement.
Each.....$0.63

Lot No. 43. 3 knot new brushes.
Each.....$0.82

ROOFER'S SNIPS.

For Use With Our Steel Roofing.

CAST IRON SNIPS.

Lot No. 1. Length of Cut, 2½ in. Each...$0.20
Lot No. 1. Length of Cut, 3 in. Each...$0.28

FORGED STEEL SNIPS—Guaranteed.

Lot No. 2. Length of Cut, 2½ in. Each.....$0.68
" " 3 " ..... .73

BUILDING PAPERS

Lot No. 4. Red Rosin-sized Sheathing Paper. Put up in rolls containing 500 sq. ft. Width of roll 36 in., weight per roll 20 lb.
Price per roll.....$ .38

Lot No. 5. Extra Quality Red Rosin-sized Sheathing Paper. Durable and water-proof, put up in rolls containing 500 sq. ft. Width of roll 36 in., weight per roll about 40 lb.
Price per roll.....$ .75

Lot No. 6. Tarred Strawboard Sheathing Paper. Put up in rolls weighing from 50 to 75 lbs. 32 in. wide. Price per lb.....$ .01½

Lot No. 7. Wool Deadening Felt. 36 in. wide. Put up in rolls weighing 60 to 80 lbs. Weight 1 lb. to the square yard. Price per lb.....$ .03

Lot No. 8. Wool Deadening Felt. 36 in. wide Put up in rolls weighing 70 to 85 lbs. Weight 1½ lbs. to the square yard. Price per lb..$ .03

Lot No. 9. Slaters Roofing Felt. Put up in rolls 36 in. wide, each roll containing 500 square feet. Weight per roll about 35 lb.
Price per roll.....$ .75

Lot No. 10. Blue Plaster Board. A strong, tough paper used under clapboards for sheathing and on walls and in place of plaster. Is put on with tacks. Put up in rolls containing 500 square feet. Weight 60 lbs. Price per roll.....$1.50
Lot No. 11. 250 feet. 30 lbs. Price.....$0.77

ROOFING CEMENT.

Prices on Roofing Cement put up in the following packages:

One gallon cans, including can	$0.35
Two " " " "	.55
Three " " " "	.75
Five " " " "	1.15
Ten " " " "	2.10
One bbl. (25 gals.), including barrel	3.75

All cans and barrels are well made, are very strong, and can be used again for other purposes.

TIN CAPS.

Per lb., large size.....$0.06

BARBED WIRE ROOFING NAILS.

Per lb.....$0.05

If you find yourself in need of advice as to style required, write us.

COMPLETE GREENHOUSE HEATING PLANT.

We show in the following pages a couple of complete Greenhouse Heating plants. **Our Engineering Department is fully equipped to plan out for you a complete Greenhouse Heating plant,** using either the small wrought pipe or using 4 in. boiler flues, and using either steam or hot water for heating. We recommend a water heating plant for a greenhouse as giving the best satisfaction. There are several reasons why this is so. **A greenhouse must be kept at about a certain temperature, day and night, and with water the large volume of water held in the pipe will hold heat even though the fire should get low during the night.** So that water does not require as steady firing, nor as much attention to the fire as does a steam plant. Water plants are often preferred to steam **because they do not dry out the atmosphere** of the greenhouse to the extent that a steam plant does. **With a Mercury Heat Circulator** in the greenhouse heating, we can overcome the objection to poor circulation in a long string of greenhouses; we can get just as perfect circulation now with water for a big plant as has been had in the past with steam. **Our Mercury Heat Circulator will increase the rapidity of circulation in a greenhouse plant two to three times the ordinary flow,** and we are consequently enabled to cut down some on the size of the circulating main, and so keep the large one from getting water logged.

The plan we show on page 58 is a greenhouse piping plan using threaded wrought iron pipe of small size in the different greenhouses for the radiation. Where the small size pipe is used, we certainly recommend the overhead piping plan, just as we show in the illustration, as we find we get very much better results, much more perfect circulation and even distribution of the heat. **The plant we show is designed to maintain a night temperature of 50 degrees in the four outside houses, and a night temperature of 60 degrees in the centre house in zero weather.** The greenhouse that this plant was designed for was 80 feet long, and about 16 feet wide. **We can make any changes to suit your house.**

In the illustration we show on page 59, we have a piping plan using 4 in. boiler flues with sleeve couplings and caulked joints, made up with cast iron greenhouse fittings and caulked joints at the end of the line. We show a full line of these greenhouse fittings on another page. There are a good many advantages derived from using these large size boiler flues. One of them is that every lineal foot of pipe contains a square foot of heating surface. **Another is the pipe holds a very large volume of water, and that is the most perfect safeguard against sudden drops in temperature and chilling of the house.** We show on page 44 the method of making up these boiler flues with caulked joints and sleeve couplings. **We include in this greenhouse heating plant one of our Mercury Heat Circulators.** We consider the Mercury Heat Circulator the greatest advance ever made in perfecting hot water heating apparatus.

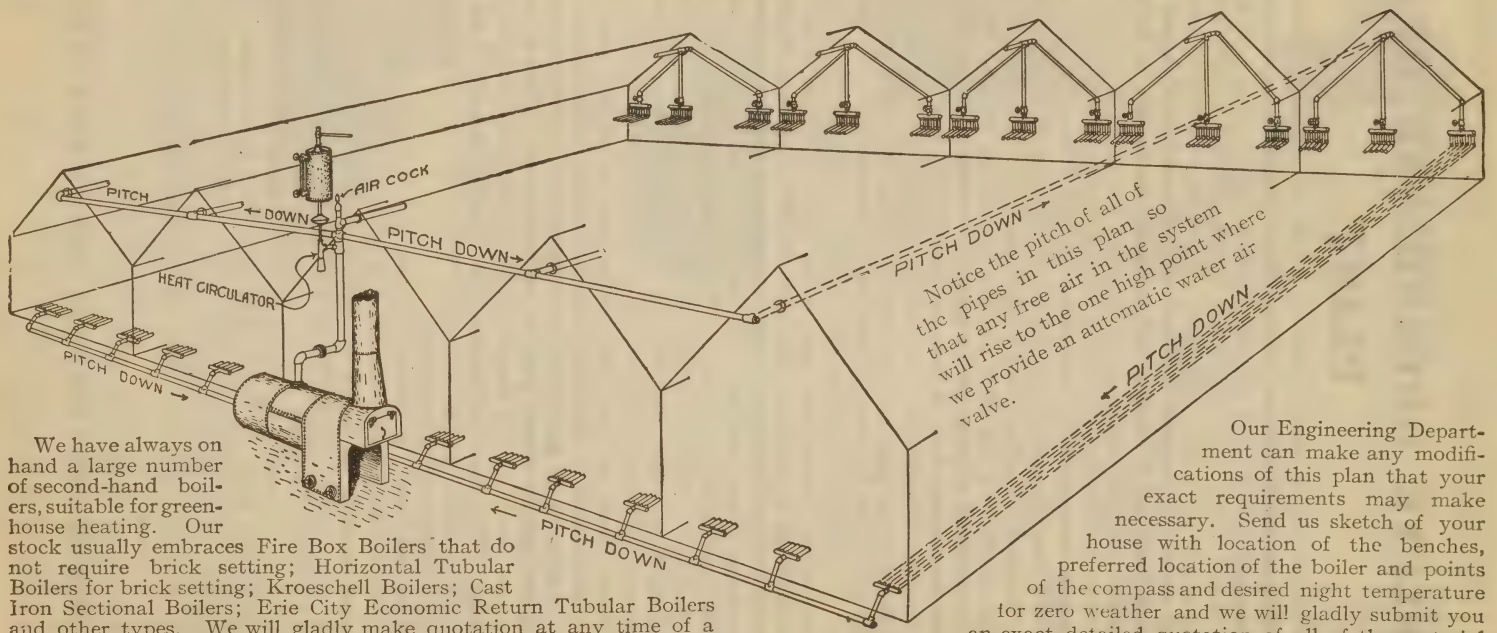
Sometimes with large greenhouses, it is desirable to install a pump on the returns to promote more rapid circulation in very cold weather.

If you have a greenhouse that is not working perfectly, if you will send us a plan of your greenhouse, and tell us just what your troubles are, our Engineering Department will be glad to suggest a remedy.

In addition to the heating apparatus, **we are headquarters for Hot Bed Sash and for pipe cut to length for posts, for Rubber hose and Water Supply apparatus of all kinds** We also have several hundred thousand square feet of **ribbed roofing sky light glass.** This makes admirable roofing glass for greenhouses. It is ¼ in. thick, 18 in. wide, sheets ranging in length from three to six feet. **Special price per sq. ft.....6 cts.** Crated F. O. B. Chicago cars.

We will furnish a sample of this glass on application.

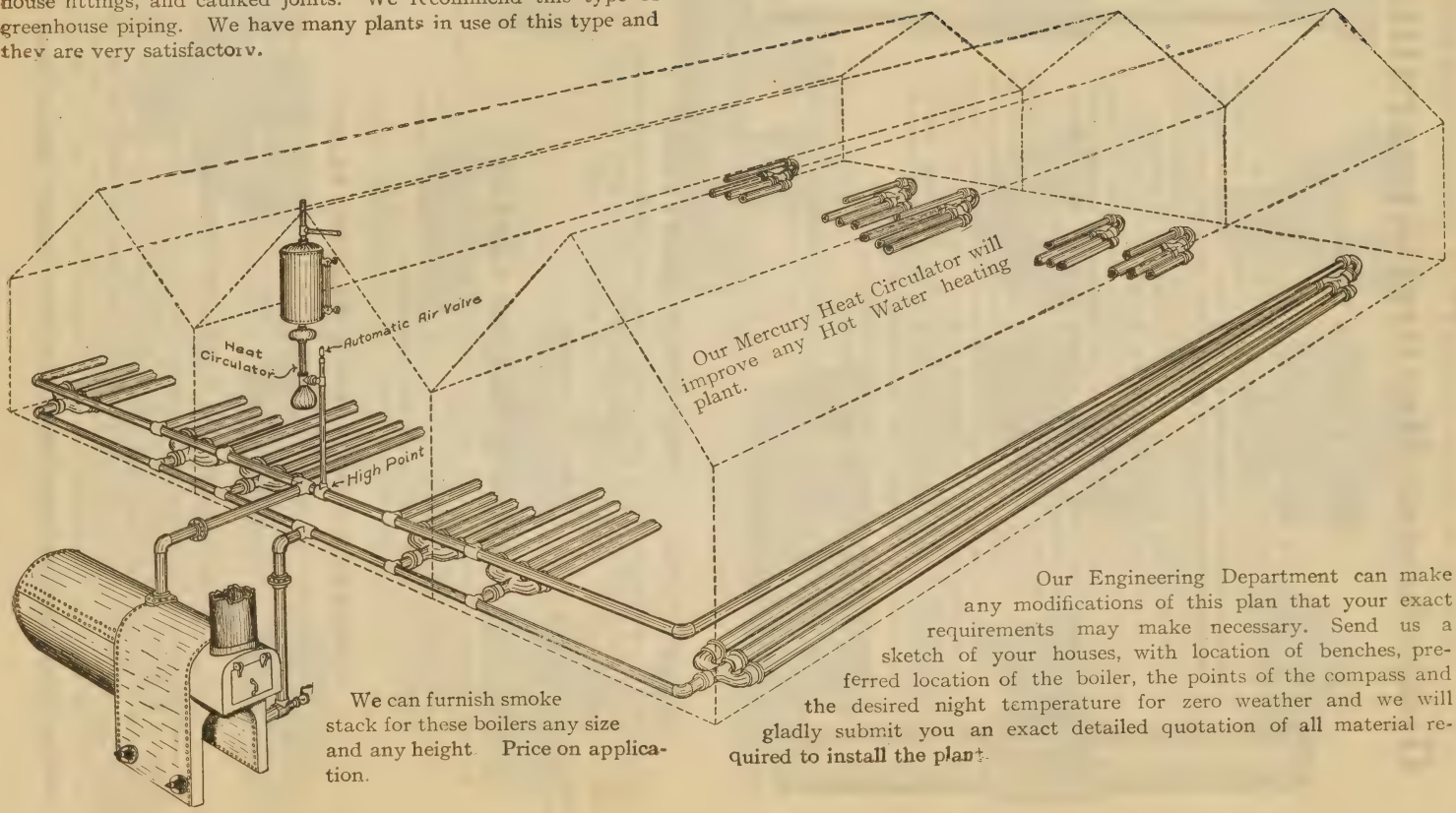
This greenhouse heating plan has been very carefully worked out and will give perfect circulation. We figure on using 1¼ in. or 1½ in. pipe for the main radiation with larger size pipe for the mains and for the over-head feeds. We would not advise using the small size pipe except with one of our Mercury Heat Circulators. These are fully described on page 33, and when one of these is used, the circulation even through the small radiating pipes will be very rapid and perfect. You will note from the sketch that we plan valves so that the lines under any of the benches may be cut off at any time it is desired to do so without affecting the general circulation of the system.


PITCH
DOWN
AIR COCK
PITCH DOWN
HEAT CIRCULATOR
PITCH DOWN
PITCH DOWN
PITCH DOWN
PITCH DOWN
Notice the pitch of all of the pipes in this plan so that any free air in the system will rise to the one high point where we provide an automatic water air valve.

We have always on hand a large number of second-hand boilers, suitable for greenhouse heating. Our stock usually embraces Fire Box Boilers that do not require brick setting; Horizontal Tubular Boilers for brick setting; Kroeschell Boilers; Cast Iron Sectional Boilers; Erie City Economic Return Tubular Boilers and other types. We will gladly make quotation at any time of a boiler suitable to your requirements. We are also prepared to make to order smoke stack of any weight of iron and in any size and in any height and furnish guy ropes, fasteners, etc. Write for prices.

Our Engineering Department can make any modifications of this plan that your exact requirements may make necessary. Send us sketch of your house with location of the benches, preferred location of the boiler and points of the compass and desired night temperature for zero weather and we will gladly submit you an exact detailed quotation of all of the material required to install the plant.

This plan shows the use of 4-inch boiler flues with cast greenhouse fittings, and caulked joints. We recommend this type of greenhouse piping. We have many plants in use of this type and they are very satisfactory.



We can furnish smoke stack for these boilers any size and any height. Price on application.

Our Engineering Department can make any modifications of this plan that your exact requirements may make necessary. Send us a sketch of your houses, with location of benches, preferred location of the boiler, the points of the compass and the desired night temperature for zero weather and we will gladly submit you an exact detailed quotation of all material required to install the plant.

Greenhouse Heating Apparatus.

Boiler Flues for Piping.

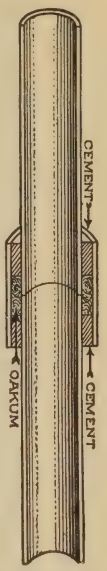
Boiler Flue with sleeve couplings.

We carry a large stock of material suitable for heating greenhouses. In heating greenhouses the consideration of the cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. We do not consider steam in a greenhouse as good as hot water, but it has some advantages in very large greenhouses. We would, how ever, never recommend steam for houses having less than 2,000 square feet of glass.

In a hot water greenhouse heating system, the best thing to use for radiation is 4 inch pipe. It contnins one square foot of heating surface to each lineal foot of pipe, and there is such a large volume of water held in this pipe that it is a safeguard against sudden atmospheric changes on the outside. All things considered, we consider 4 inch boiler flues the finest of all pipe to use for greenhouse heating. We furnish these boiler flues in random lengths from six to twenty feet each. They are joined together with sleeve couplings, as we show in the above illustration with calked joints. These sleeve couplings are made of larger diameter wrought iron pipe so that there is no danger of splitting them even though they are tightly packed. These boiler tubes are used in connection with cast iron greenhouse fittings with hub ends, as we show elsewhere in this catalog.

Price for specially selected boiler tubs in random lengthes, thoughly cleaned, with sleeve couplings.....**15** cents per foot

Price for the boiler tubes only, without the sleeve couplings ..... **10** cents per foot.



Sectional veiw showing joint

SPECIALLY THREADED BOILER FLUES.

We are also in a position to furnish these boiler flues with special casing thread, and with threaded couplings, so that they can be made up the same as threaded pipe is made and can still be used with the calked joint greenhouse fittings at the end of the run. These boilers flues are practically the same strength as wrought pipe. They are lighter and are furnished for much less money.

Price, 3½ inch, threaded as above, including the couplings, per foot.....**$0.14**
Price, 4 inch, threaded as above, including the couplings, per foot.....**.18**

GREENHOUSE HEATING BOILERS.

We have two hundred boilers on hand, suitable for greenhouse heating, in the following types.

Cast Iron Sectional Boilers. Locomotive Fire Box Boilers.
Horizontal Tubular Boilers. Kroeschell Greenhouse Boilers.
Herbert Return Flue Boilers.

Price on these boilers quoted on application.

COMPLETE GREENHOUSE HEATING PLANT.

If you will send us a sketch of your greenhouse, showing the location of the benches, preferred location of the boiler, location of the door, etc., we will figure up for you a complete greenhouse heating plant, all the pipe, pipe fittings required, the boiler, with or without smokestack, and all the valves, etc., to install the complete plant and make you a special quotation.

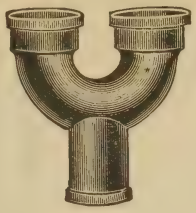
CALCULATING THE RADIATION NEEDED.

In heating greenhouses the consideration of cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. To heat a greenhouse from 50 to 60 degrees night temperature in zero weather with hot water using our Mercury Heat Circulator we would figure one square foot of radiation to 3½ square feet of glass. To heat a greenhouse from 60 to 70 degrees, one square foot of radiation to 2¾ square feet of glass. In figuring steam plants, we figure twenty-five per cent less heating surface than with hot water.

Ask for Prices on Greenhouse Sash, Pipe cut to length, Rubber Hose, Etc.

GREENHOUSE FITTINGS—ALL 4 INCH.

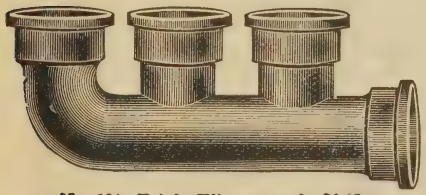
No. 100.
Return Bend,
Hub Outlet, each, 90c.



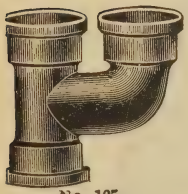
No. 101.
Return Bend,
Spigot Outlet, each, 90c.

No. 102.
Return Bend,
Single Hub,
each, 65c.

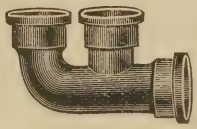
No. 103.
Return Bend,
Double Hub,
each, 75c.



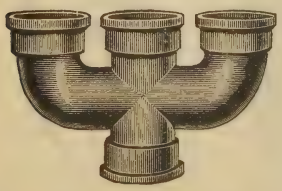
No. 104. Triple Elbows, each, $1.40.



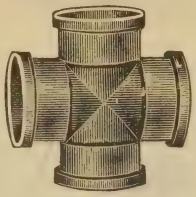
No. 105.
"H" Branch, 3 Hubs,
each, 90c.



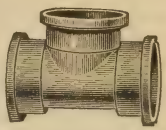
No. 106.
Double Elbows, each, $1.00.



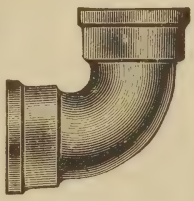
No. 107. 3-Way Branch "T," each, $1.40.



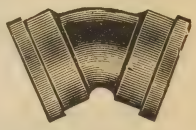
No. 108.
Cross with Hubs, ea., 90c



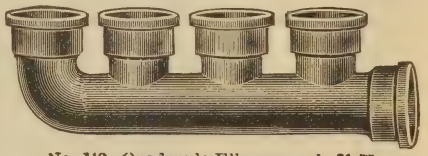
No. 109.
T Branch Hub Ends, ea., 65c



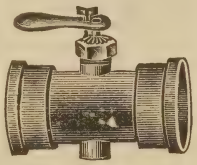
No. 110.
¼-Bend, Double Hub,
each, 50c.



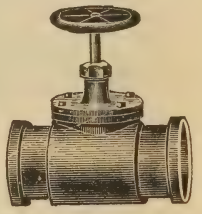
No. 111.
⅛-Bend, Double Hub,
each, 50c.



No. 112. Quadruple Elbows, each, $1.75.



No. 113.
Greenhouse Butterfly
Valve, each, $3.50.



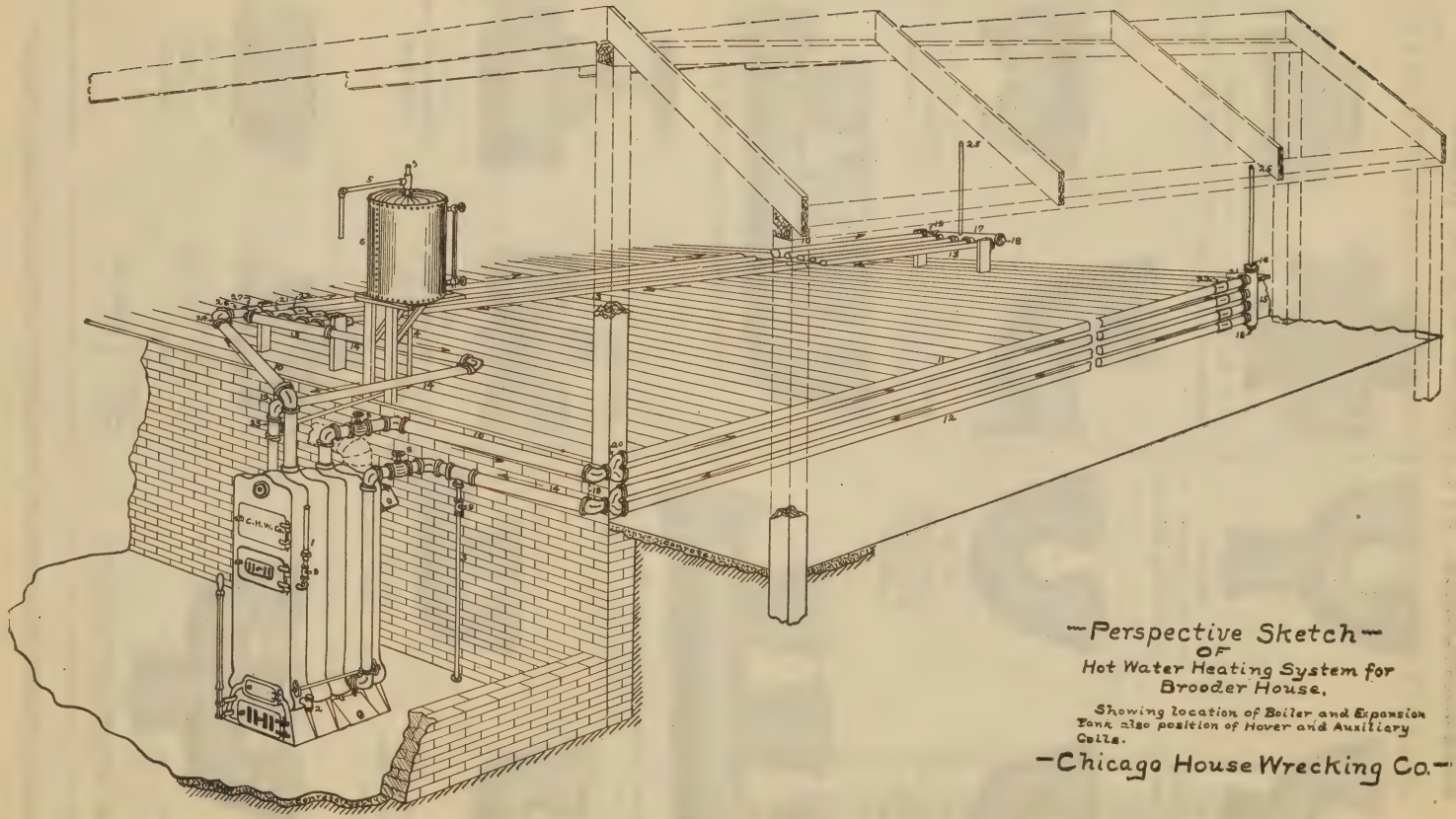
No. 114.
Greenhouse Valve,
each, $6.00.

No. 115.
Pipe Band with Hub
Outlet.

4x4 inch
4x3 "
4x2 " } each, 65c.

No. 116.
Pipe Bands,
each, 35c.

Write for Special Quotations on Complete Greenhouse Heating Plants.



—Perspective Sketch—
OF
Hot Water Heating System for Brooder House.

Showing location of Boiler and Expansion Tank also position of Hover and Auxiliary Coils.

—Chicago House Wrecking Co.—

SEE NEXT PAGE FOR DESCRIPTION AND PRICES.

Brooder House Heating Plants.

The illustration on page 49 shows in full a hot water heating plant for a chicken brooder house. As the plant is designed, it is supposed that the house will be fifty feet long, sixteen wide and eight feet high at the highest point. It would have a submerged walk some twelve or fourteen inches below the floor of the brooder pens proper, four feet wide, and the floor space of the brooder pens would be twelve feet wide, and it will be partitioned across part way to the ceiling dividing the brooder pens from the walk. The line of pipe running through the center of the brooder pens is supposed to run through the hover which will be made sixteen inches wide and twelve inches high, and the top will be covered over with boards having suitable vent slides in them and the two sides protected with little canvas curtains that can be dropped down so as to keep this space within the hover at a temperature of 90 to 100 degrees. There is one 2″ flow running from the boiler to the manifold at the further end of the brooder house and then the returns come back in four 1¼″ pipe. There is an auxiliary heating coil controlled with valves placed in the walk and in very severe weather this can be used to raise the general temperature of the brooder house to a satisfactory degree of heat.

BROODER HOUSE HEATING OUTFIT NO. 1.

The plant we illustrate is **Our Brooder House Heating Outfit No. 1,** and is for a fairly large house and contains one of our No. 64 Perfection cast iron sectional heaters, and the necessary pipe to install the outfit as shown in our illustration in a fifty-foot house, and we will furnish all the material to install this plant just as we show it, with the exception of the smoke pipe for the heater for.....**$95.00**

We can furnish larger outfits than this and will submit prices on application.

BROODER HOUSE HEATING OUTFIT NO. 2.

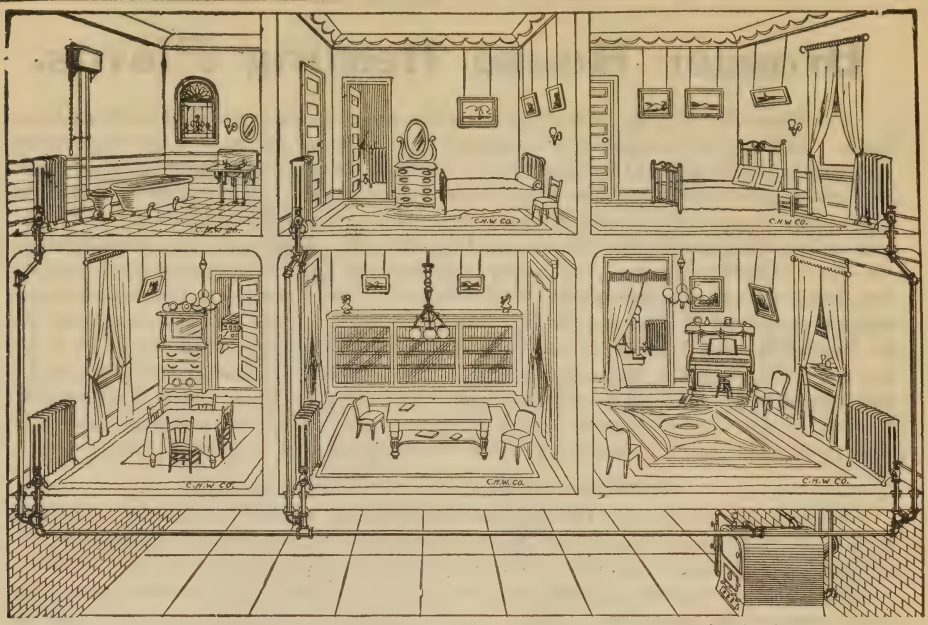
We have plants for smaller houses than this. Our brooder heating outfit No. 2 consists of heating apparatus for a house of the same width and height as above, but twenty-five feet long and is without the auxiliary heating coils in the walk. For this house, we figure one of our No. 15 tank heaters. This has a fire pot thirteen inches in diameter and twelve inches deep, fitted for seven inch smoke pipe and has 1½″ inlet and outlet connections. It has a flat top on which you can place a boiler to mix and cook chicken feed. It is equipped with the best shaking grate and will easily supply all the heat needed for the brooder coils for this size house in the coldest weather. Our special price of this complete outfit, consisting of the No. 15 tank heater and expansion tank and all the necessary pipe and pipe fittings to install this as shown in the illustration for a twenty-five foot house is.....**$45.00**

BROODER HOUSE HEATING OUTFIT NO. 3.

Brooder house heating outfit No. 3 is for a brooder house fifty feet long, sixteen wide and eight feet high, same as the above two houses, with only the heating coils in the hover, without the auxiliary coils in the walk. This consists of one of our No. 16 heaters, which has a fire pot thirteen inches in diameter and fifteen deep and fitted for seven inch smoke pipe and 1½″ connections. It has the same flat top as described above, so that it can be used for warming or cooking the chicken feed, and our special price for this outfit, consisting of the heater, expansion tank, pipe and pipe fittings to install the coils as shown in our drawings is.....**$55.00**

BROODER HOUSE HEATING OUTFIT NO. 4.

Brooder house heating outfit No. 4 consists of material for heating a twenty-five foot house with the hover coils and auxiliary heating coils in the walk. This is just as we show in our illustration, except that the house is but twenty-five feet long instead of fifty feet. The heater is one of our No. 17 tank heaters which has a fire pot thirteen inches in diameter and eighteen inches deep, fitted for seven inch smoke pipe connections. It has the same flat top as the others so that the poultry food may be cooked on it. We will furnish all the material for this outfit except the smoke pipe, material consisting of the necessary pipe and pipe fittings to install both coils as shown in our drawing, expansion tank, etc., for....**$70.00**



We carry in stock Steam and Hot Water Heating Apparatus of every kind. We are in position to save you money on the heating of any Building for any purpose. If you have a Home, Store, Church, Club House, Office, Hotel, Factory, a Brooder House, Greenhouse, or in fact a building of any kind requiring heat, you will find our Hot Water or Steam Heating Plants the least expensive and the most satisfactory. They can be installed in any old building, or in any new building that is being erected. The installation of one of these plants in a completed building will not tear up the building a particle.

With our up-to-date methods we can show you how to install such a plant without calling into your service an experienced steam fitter. Any man who can cut pipe, thread it and screw it together is competent to install a heating plant with the aid of our comprehensive working drawings and instructions. If you have no tools, we will loan you a complete set.

The illustration above shows one of our Modern Hot Water Heating Systems installed in any ordinary residence of 7 rooms with two halls.

HEATING PROPOSITION NO. 1. HOT WATER.

We will furnish you with a complete Hot Water Heating Plant for an average size two-story residence, figuring the first floor with a nine foot ceiling and the second floor with an eight foot ceiling. The Parlor and Sitting Room of average size 12x15, the Dining Room 12 feet square and the hall 8 feet wide 20 feet long. The Bed Rooms up-stairs one of them 12x12 and the other 10x12, and an 8x8 bath room.

The apparatus will consist of one of our new modern Cast Iron Sectional Boilers with a capacity of 500 feet of radiation. This boiler has a large deep fire pot, and occupies small floor space. The heater is a special design and is offered you without hesitation as the most economical heater on the market. Many salient improvements over other cast iron sectional heaters have been made on it. We guarantee it will give you absolute satisfaction.

This heater is of splendid design. It is made in the best manner and each section is thoroughly tested before it is put together. It is very economical for the reason that the consumption of fuel is absolutely perfect, owing to the depth of the fire pot. There are no waste gases. In any temperature, except the most severe weather, the boiler would not need firing oftener than twice in 24 hours. It is made with the most improved style of draught doors and checks. It is controlled in the living rooms above by means of a draught door chain.

Should future enlargements of your home necessitate the increase of your heating plant, you can get additional sections for this boiler and set them in at little expense.

There are seven highly ornamental three column pattern, Cast Iron Sectional Radiators, together with seven Hot Water Quick Opening Radiator Valves, nickel plated all over with union; seven Hot Water Radiator Union Elbows, nickel plated all over; seven Nickel Plated Compression Radiator Air Valves; and an Expansion Tank, complete with gauge cocks, water glass, guard rods, etc. Includes also all the necessary piping, running the mains in the basement with 2 inch pipe, and making connection to the radiators with the right size pipe throughout. The necessary Asbestos covering to cover all the mains in the basement, and Asbestos cement to be mixed into mortar to make a covering for the boiler, and all the fittings on the mains in the basement, and all the necessary fittings, such as ells, tees, nipples, unions, couplings, etc., to install the entire plant, together with pipe hangers for hanging the mains, and floor and ceiling plates for all the pipes that would pass through the floor and ceiling.

We furnish working drawings and instructions so that any ordinary mechanic can install the plant.

Our Special Price for all the Material, $200.00.

COMPLETE INSTRUCTION BOOK FREE

WE FURNISH with each **Hot Water Heating Plant and Plumbing Outfit** which we sell a complete instruction book absolutely free of charge to our customers. This book explains every practical phase of the plumbing and heating problem in the most simple and thorough manner possible. Starting with the very first fitting on the boiler it carries you through the entire subject, explaining the "how and why" of every fitting and connection to the very last detail. If you have any possible doubts as to your own ability to install your heating plant or plumbing outfit this book will dispel them.

WE DO NOT send these books out indiscriminately, but if you would like to get one and look it over before ordering your plant, send us 25 cents in postage to cover the actual cost of printing, and we will mail you a copy of this book. When you send your order in you can deduct this amount from your order. If you are not fully convinced after reading this book that you can install your own heating plant or plumbing outfit you can return it to us and we will refund your money.

You Can Install It Yourself

DID YOU EVER STOP to realize what a great pleasure it is to do a job of this kind yourself and know it will be ***Done Right?*** The actual work is mere pastime —it is so interesting. An average heating plant can be installed in about six or eight evenings and then think of the extreme joy when the plant is all ready for the test and you turn the water into it and start the fire and find that it works beyond your wildest dreams.

TO SECURE OUR ESTIMATE it is first necessary to carefully fill in the information blank which we furnish on request. This information blank explains very clearly just what information our engineers require to properly figure the size plant you need and when you have this properly filled in, in accordance with the instructions, mail it to us and we will turn this information over to our engineers who will make up an estimate on your entire plant and we will immediately make you a complete proposition by return mail If, when you receive our proposition, it proves entirely satisfactory to you, you then send us your order with a remittance of about $25.00 on account to bind the agreement. We then turn the entire correspondence, together with your plans and information which you furnished us, over to our engineers who make up your plans and instructions covering every minute detail on the entire piping system. Wherever a difficult connection is made, it is very carefully illustrated with perspective sketches so that you will have no trouble whatever in getting the entire plant installed without a hitch.

AFTER THESE DRAWINGS are carefully prepared, we submit them to you for your approval. You can then see just how we have planned to carry the mains in the basement. If there are any girders or anything of that nature in your basement which would interfere with the mains as we have planned to run them, you can then, of course, make any corrections on the blue print that you may think necessary. We will again turn it over to our engineering department with your suggestions and after these corrections are made, we will make up the complete bill of material to the very last fitting that will be required on theen tire plant and send the order through to be filled. This is all checked and re-checked very carefully so that there is absolutely no possibility of any mistake occuring.

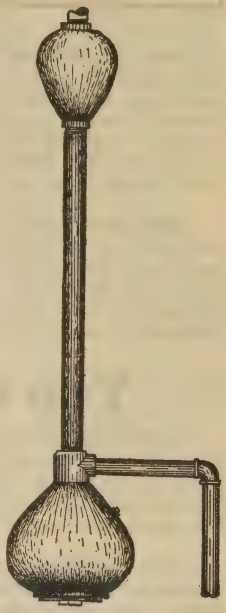
We Loan You Tools

WE LOAN OUR CUSTOMERS all the necessary tools that are required to completely install the entire plant, so that you will be absolutely independent of any plumber or steam fitter. When you are through using these tools, you can return them to us freight charges prepaid and we will refund you the money charged you for them.

Reaming the Pipe

WE FURNISH YOU with a complete set of reamers so that all the ends of the pipe can be reamed out and the resistance of the entire piping system is cut down to a minimum.

MERCURY HEAT CIRCULATOR.



This is an appliance made entirely of iron with a sufficient quantity of mercury inside. It is designed to be connected in a hot water heating system just below the expansion tank for the purpose of controlling the expansion of water in the system. Water in a system cannot expand and enter the expansion tank without displacing this mercury in the vertical column, and the displacement of the quantity of mercury put in this circulator will generate a pressure of 10 lbs. above the ordinary gravity pressure of the water. This increased pressure will **increase the rapidity of circulation** of the water in the system from **50 to 500 percent.**

Mercury is about thirteen times heavier than water and the displacement of about a 20 in. column of mercury generates the pressure. There is no chance for sticking and no chance for creating a higher pressure than would be produced by the full height of the mercury column. When heat is applied to the water and it is expanding the pressure is produced just at the time it is needed to stimulate the circulation. After the column of mercury is displaced, the remaining volume of water passes on up to the expansion tank and is there stored until the water in the system cools off and consequently contracts, when it again flows down through the mercury and back into the radiators and piping.

With our circulator in a hot water job, you can carry as **high a temperature in water** as you would use **with steam,** consequently we reach the extreme temperatures of steam and also have the advantage of circulation of heat at much lower than the steam temperatures. In fact, water will circulate at from less than 100 up to 240 degrees. The temperature depending on your fire, gauged according to the severity of the weather.

By using this mercury heat circulator we are enabled to cut down the size of the pipe in the job, making the job very much more sightly than with the old style pipe. These circulators could be inserted in any existing heating plant and will most certainly correct any trouble that you are having, and cause it to work perfectly, and it will increase the amount of heat that you can get from your plant, or in other words, the efficiency of the plant by from 25 to 40 percent.

In plants with our mercury heat circulator installed, **you can get up heat just as quickly as with a steam plant,** but the water holds the heat very much longer than steam, consequently the house will cool off much less rapidly than with a steam plant. A hot water plant with our mercury circulator has all of the advantages claimed for the so-called vacuum or vapor system of steam heat, and a great many additional advantages of its own.

Some of these advantages are:

Circulation of heat from less than 100 degrees in chilly spring or fall weather up to 240 degrees for blizzard weather.

Rapid circulation and quick response to firing—no vacuum to fail you.

Slow cooling of the radiation, even though the fire gets low.

Smaller radiators and pipe and consequently easier and more cheaply installed.

Actual saving of fuel over the old style water plants.

For greenhouse heating these mercury heat circulators are the greatest advance made in recent years. In a greenhouse long lines and enormous quantity of water held in the system has been heretofore a difficult proposition to handle successfully These heat circulators are guaranteed to double or treble the rapidity of circulation, and we recommend that they be applied to any hot water greenhouse heating plant whether fairly satisfactory or not. It will increase the efficiency of the satisfactory ones and it will make the unsatisfactory plants thoroughly satisfactory.

These heaters are made in three sizes:

No. 1 for plants up to 1,500 sq. ft. of radiation.....**$15.00**
No. 2 for plants from 1,500 to 3,000 sq. ft. of radiation.....**$25.00**
No. 3 for plants above 3,000 sq. ft. of radiation.....**$35.00**

If you know of any hot water heating plant that is not satisfactory, write to us about it We will guarantee that we can correct the troubles entirely.

WE HAVE 100,000 FEET OF FIRE HOSE FROM THE ST. LOUIS FAIR.

HEATING APPARATUS

STEAM HEAT OR HOT WATER HEAT

It is a matter of opinion as to the relative merits of Hot Water or Steam Heat. A Hot Water Plant costs more money to install than does Steam, because you have to provide a double pipe system, as shown in our illustration, flow and return; while in the Steam Plant, you require only a single pipe system, the pipes being pitched so the water of condensation will drain back to the boiler.

The Hot Water Plant requires a greater amount of radiator surface in each room than the steam, because the water circulating in the radiators will only average from 160 to 180 degrees. With steam, on the other hand, the steam vapor has a temperature of 212 degrees, and steam of 10 lbs. pressure has a temperature of 239 degrees, and at 20 lbs. pressure a temperature of 258 degrees. Thus you can see that it would not require as large a radiator with the steam heat as it would with the hot water heat, and in extremely cold weather it is entirely feasible to carry from 10 to 20 lbs.

In climates where sudden changes of temperature occur, the Steam Heating Plant is preferable, because with steam you can make a material change in the temperature of your home in 30 minutes, while with water heat it takes from one to three hours to raise the temperature decidedly. Water cools equally slow, and if you only require heat in the morning and evening, steam is better.

HEATING PROPOSITION NO. 2. STEAM

We make the following offer for the necessary material to heat with steam a home as outlined in our Hot Water Proposition.

The boiler will be practically just the same in every way as the one described for water, with the addition of a full set of steam trimmings, including an Automatic Diaphragm Damper regulator that will automatically control the draughts to maintain any pressure at which it is set. The boiler pressure operates on this to open or close the check doors. Pressure gauge, safety valves, etc.

We will supply a cast iron sectional boiler with seven cast iron radiators, seven nickel-plated Jenkins' Disc Radiator Valves, and all pipe and pipe fittings, such as elbows, tees, nipples, unions, hangers, floor and ceiling plates, etc., sufficient to install the plant, together with pipe covering to cover all of the mains in the basement, and asbestos cement to make a covering for the boiler.

Our Special Price for All the Material.....$165.00

MERITS

It is hardly necessary for us to enter into a statement of facts as to why Steam or Hot Water Heat is superior to any other kind. You do away with the dirt such as you accumulate by using a stove, furnace or grate. You can at all times maintain an evenly distributed temperature. With a furnace, on the other hand, it is impossible to heat a room on the windward side of your house when a strong wind is blowing. Enough air will blow in around the windows to force the ascending warm air back down the stack. The strongest wind cannot affect the circulation of either steam or water in a pipe. No danger of coal gas. The greatest argument of all is the tremendous saving in fuel. A Steam or Hot Water Plant will provide as much heat with six (6) tons of coal as a furnace will with ten (10) and distribute it much better. Any kind of fuel can be used in our heating plants. You can turn off the heat at any radiator without affecting the circulation to the blance of the system.

OUR BOILER RATINGS

The ratings for Our Perfection Boilers provide that all piping (mains and risers, flow and return) in addition to the direct radiation to be used shall be figured as radiating surface in estimating the size of boiler required.

When a pipe coil or cast iron section is introduced into the fire pot for the purpose of heating water for domestic use, additional capacity should be figured in determining size of boiler, viz.: in the case of Steam Boilers, 1½ square feet of direct radiation for each gallon of water to be thus heated, and in the case of Water Boilers, 2 square feet of direct radiation for each gallon of water to be thus heated according to the capacity of the tank to which coil or section is connected.

When indirect radiation is to be used, not less than 75 per cent increase over radiation should be figured in determining the size of Boiler required.

In rating Steam Boilers as above, it is understood that an **average pressure of 2 lbs. will be maintained** at the Boiler. In rating Water Boilers as above, it is understood that the mean temperature of the water at the Boiler will be 180 degrees Fahrenheit.

All boilers must be attached to a chimney of sufficient size with a good draft, and must not be less (round or square) than given in the list for the Boiler specified; they must also be of ample height above the highest part of the building, and such chimney must be used only for the boiler, otherwise our guarantee is void.

RECOMMENDATION. Both on account of increased efficiency and in the interest of greater economy we strongly recommend that all Boilers be **thoroughly protected** by a **substantial covering of asbestos.** We also recommend that the mains, both flow and return, be covered with asbestos covering, although sometimes, in order to keep the expense as low as possible, the mains and fittings are painted with two coats of asphalt paint, and this painting prevents the loss of a considerable amount of heat.

If interested in Heating Apparatus, write for our Special Heating Catalog.

PERFECTION BOILERS, No. 60 SERIES.

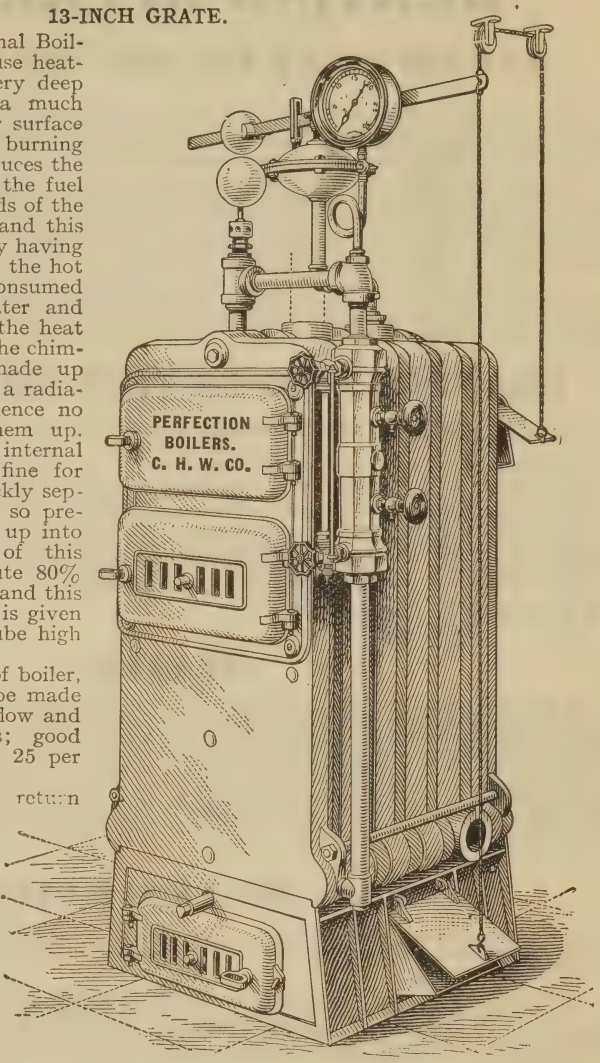
13-INCH GRATE.

These Cast Iron Sectional Boilers are a new design of house heating boiler, made with a very deep fire pot, and this offers a much greater proportion of water surface in actual contact with live burning coals. A deep fire pot produces the most perfect combustion of the fuel for the reason that two-thirds of the fuel is converted into gas, and this gas can best be consumed by having to work its way up through the hot mass of the fire. No unconsumed gas escapes from this heater and the return flues absorb all the heat before the smoke passes to the chimney. These heaters are made up complete and tested same as a radiator at the foundry, and hence no time is lost in setting them up. These heaters have a perfect internal circulation, and are very fine for steam, as steam can be quickly separated from the water and so prevent possible water boiling up into the pipes. Actual tests of this heater show it will distribute 80% value of the fuel consumed, and this is a higher percentage than is given by any tubular or water tube high power boiler.

In estimating the size of boiler, a liberal allowance should be made for the radiation from the flow and return pipes and fittings; good practice puts this at 20 to 25 per cent.

If the main flow and return pipes are not covered, the loss of heat per square foot is much greater than is given off by the radiators, and provision should be made accordingly.

See page 71 for sectional view of this boiler. See page 66 regarding ratings, guarantee, etc.

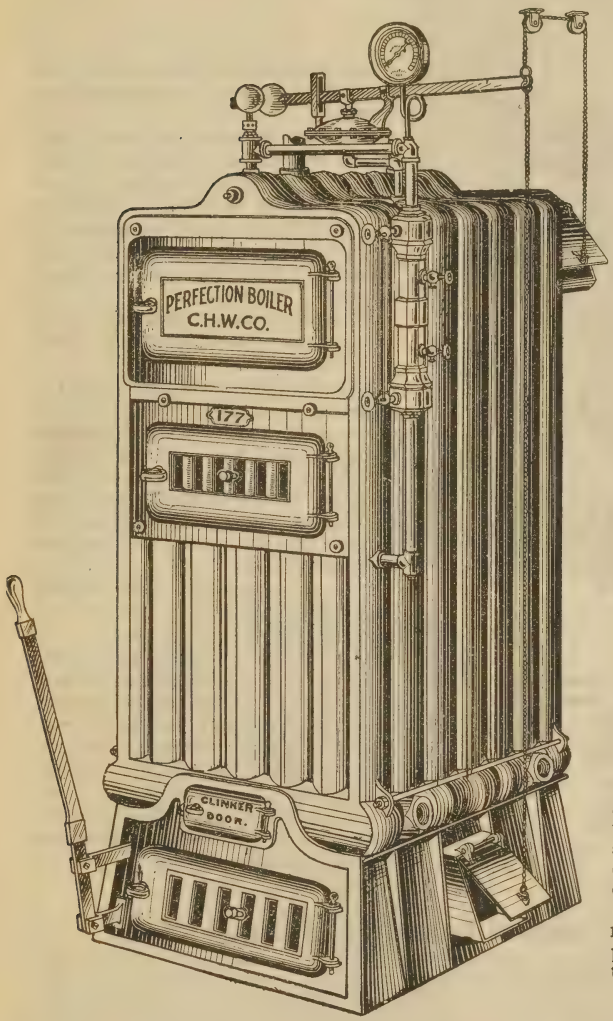


DIMENSIONS AND PRICES.

Number	Size of Fire Pot	Size of Smoke Pipe	Floor Space Including Smoke Box	Tappings at Flow and Return	Height to Water Line (In Steam Boiler.)	Height of Heater	Direct Water Radiation	Direct Steam Radiation	Price for Water	Price for Steam with Trimmings Complete
64	13 x 12	7	22 x 23	2–2	38½	48	300	150	$40.00	$46.00
65	13 x 15	7	22 x 27	2–2	38½	48	400	225	45.00	51.00
66	13 x 18	7	22 x 31	2–2	38½	48	500	300	50.00	56.00
67	13 x 21	8	22 x 35	3–2	38½	48	600	375	55.00	61.00
68	13 x 24	8	22 x 39	3–2	38½	48	700	450	60.00	66.00

Perfection Boiler No. 170 Series

17 Inch Grate.



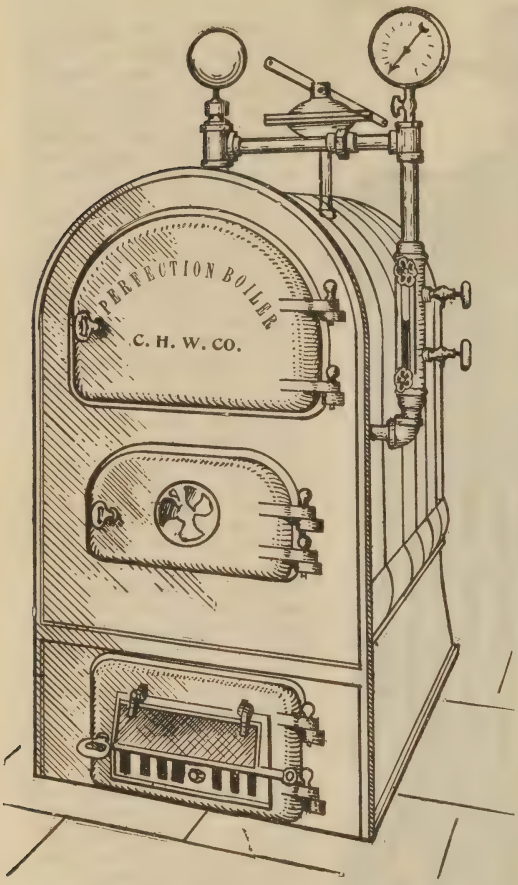
Our No. 170 Series of Perfection Boiler are built much on the same lines as the No. 60, save they are larger. The fire pot is four inches wider, each section about one inch longer and ten inches higher. This extra height is taken up by another row of flue spaces, as shown in the sectional view on page 26. These boilers embody the same telling features as the No 60 boilers with the deep fire pot, slow combustion and absolutely perfect consumption of the fuel. They give the same wonderful results with 80% of the heat units of the fuel distributed into the home. The tappings on this series of boiler are 2½". If it is desired, a three inch main may be taken off by using 2½" nipple and a 2½x3 elbow at the top. The 2½" opening at the top of the boiler is ample for a 3" main, as the friction on the main is equal to one size in pipe. These boilers have the anti-clinker grates that have circular motion, and the teeth grind the clinkers into fine particles. The boilers in this Series are all shipped set up and tested at the foundry, so that it is only necessary to set them on the base, put on the trimmings and proceed with the piping.

See page 66 regarding ratings, guarantee, etc. See page 70 for sectional view of this boiler.

Number.	Size of Fire Box.	Size of Smoke Pipe.	Floor Space.	Size and No. of Flow Taps.	Size and No. of Return Taps.	Height of Water Line.	Height of Heater.	Square Feet of Water Radiation.	Square Feet of Steam Radiation.	Price Water.	Price Steam with Full Set Steam Trimmings.
175	17x17	8-in.	27x31	2-2½ in.	2-2½	48½ in.	58 in.	700	425	$ 63.00	$ 69.00
176	17x21½	8-in.	27x36	2-2½ in.	2-2½	48½ in.	58 in.	900	525	75.00	81.00
177	17x26	9-in.	27x41	3-2½ in.	3-2½	48½ in.	58 in.	1050	625	90.00	96.00
178	17x30½	9-in.	27x46	3-2½ in.	3-2½	48½ in.	58 in	1250	725	105.00	111.00
179	17x34	9-in.	27x51	3-2½ in.	3-2½	48½ in.	58 in.	1450	825	120.00	126.00
171	17x40	10-in.	37x56	4-2½ in.	4-2½	48½ in.	58 in.	1650	925	130.00	136.00

Perfection Boilers, No. 80 Series

21 Inch Grate.



Our Perfection Boilers are the best Sectional Cast Iron Heaters manufactured.

The construction of these Sectional Boilers and Heaters is simple and easily understood. It is arranged with the idea of utilizing to the fullest extent the forces of nature for the production and diffusion of heat and easy of management.

Efficiency and economy have been fully considered in their manufacture.

These boilers are equipped with the improved smoke box extension shown on page 71 and with the adjustable damper plate. The draft can be regulated to suit the chimney. The sections of the boilers have been so constructed that every part is exposed to the action of the fire or heated gases.

The non-corrosive push nipple joints used in connecting the section are the most perfect to be found on any sectional boiler. This method of connecting the sections is the best to use no matter how the question is considered, and it is more universally used on high pressure boilers than either the flange or screw joint. The steam space in the boilers is large, insuring a good steam pressure without constant firing.

Dimensions and Prices of Heaters and Boilers as per Cut Shown on This Page

No.	Size of Grate	Size of Smoke-pipe	Floor Space	Height of Boiler	Height of w'ter line	Tappings Flow and Return	Direct Water R'diation	Direct Steam R'diation	Price for Water	Price for Steam with Trimmings
84	21x21	8	29x32	50	41½	1–3	675	400	$84.00	$ 90.00
85	21x27	8	29x38	50	41½	1–3	850	525	104.00	110.00
86	21x33	9	29x44	50	41½	1–3	1050	650	119.00	125.00
87	21x39	9	29x50	50	41½	2–3	1275	775	144.00	150.00
88	21x45	10	29x57	50	41½	2–3	1475	900	159.00	165.00

The boilers in this series are shipped with the sections separate, and they have to be set up on the job.

See page 66 regarding ratings, guarantee, etc.
See page 70 for sectional view of this boiler.

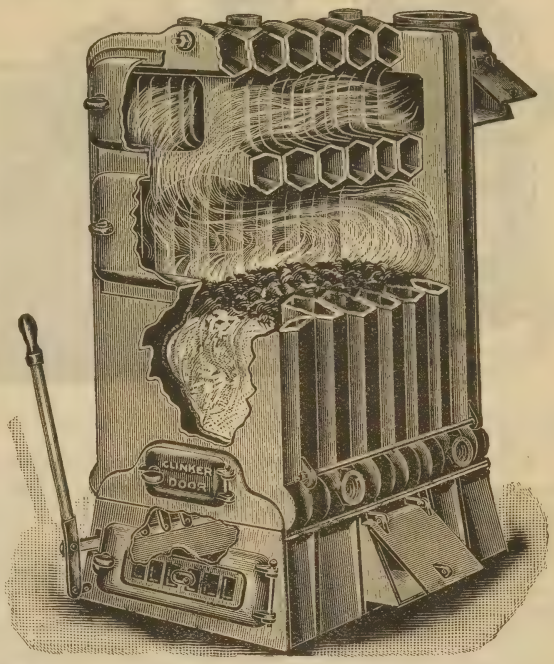
Let us make you a detailed estimate of a heating plant.

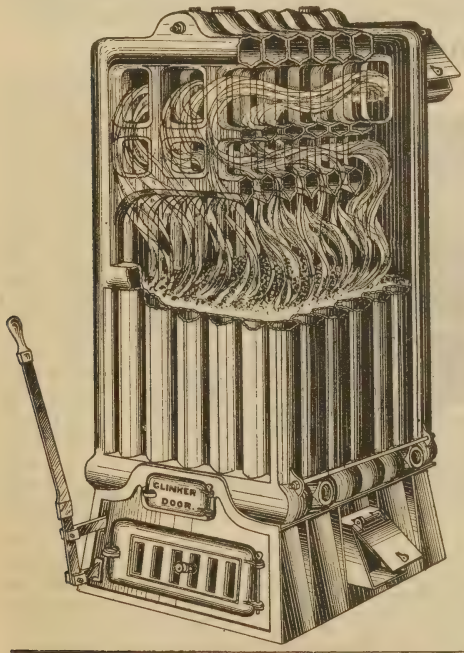
PERFECTION BOILERS

No. 60 and No. 170 Series—Sectional Views

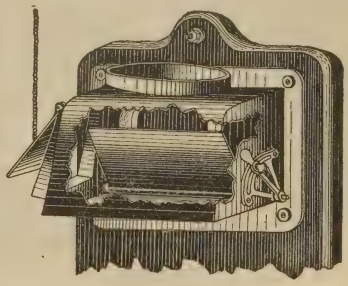
In the sectional view shown herewith of our No. 60 Series Steam and Hot Water Boilers, we call particular attention to the very deep fire pot. These fire pots are twenty inches from the door to the grate, and are designed to carry from twelve to eighteen inches of fire in this boiler, according to the weather. This deep fire pot is a new principle applied to small house heating boilers, and it makes a boiler that does not require firing oftener than twice or three times in twenty-four hours, except in the severest weather. Absolutely perfect combustion of the fuel is assured, because with this deep bed the gases are liberated and as they trickle up through the hot mass of fuel are entirely burned. Even the cheapest grade of soft coal will burn in this boiler with very little deposit of soot.

For a heating plant in a house where not more than 500 feet of hot water radiation or 325 feet of steam radiation (actual surface) is used there is no better boiler than this in existence. You will note the improved shaking device and the draft and check doors on this boiler. The clinker door is another big improvement, as it enables you to take out the clinkers from the grate at any time. Note how the sections are cast "V" shape, so that there is a much greater exposed surface to the fire. These boilers are absolutely guaranteed first class and up to their rated capacity.

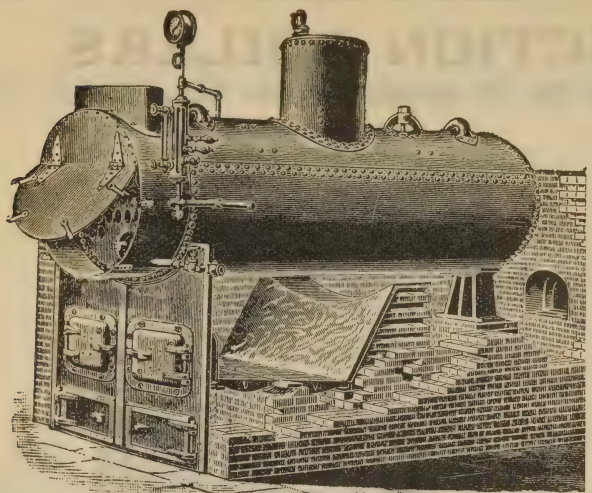




This sectional view shows the internal construction of our No. 170 Series Boilers. The fire box of these boilers is three and one-half inches wider than the No. 60, each section one and one-half inches longer and is nine inches higher. These boilers are adapted for houses requiring from 500 to 900 feet of hot water radiation, and from 200 to 500 feet of steam radiation, actual surface.



This illustration shows our smoke box extension with the adjustable damper and set screw, permitting one to adjust this to suit the draft, or carry a slow or brisk fire.



Horizontal Tubular Boilers

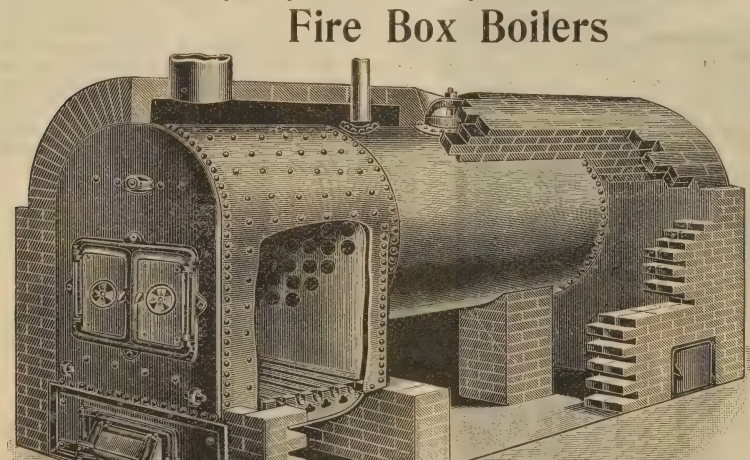
We have always in stock any number of good rebuilt Horizontal Tubular Boilers, ranging in size from 30 inches diameter by 8 feet in length up to 72 inches diameter by 20 feet in length: or, in other words, from 10 to 175 horse power, with a capacity of 1,000 to 18,000 feet of radiation. These boilers are thoroughly overhauled before shipment. On large heating jobs we recommend their use. If you will give us plans and information as outlined on page 46 of this book, we can better estimate your requirements, and will make you a proposition on a complete tubular boiler ready for installation. Can furnish these with or without domes. They are practical for either steam or hot water heating. Following are the general specifications of what we have to offer in these boilers:

Nominal Horse Power	12	15	15	20	28	34	40	45	50	60	70	85	100	125
Capacity, square feet, Direct Steam Radiation*	1000	1200	1400	1800	2600	3100	3600	4700	5500	6900	8000	7200	9000	11500
Diameter, inches	30	30	36	36	42	42	42	48	48	54	54	60	66	72
Length Tubes, feet	8	10	8	10	10	12	14	12	14	14	16	16	16	16
Thickness Shell, inches	¼	¼	¼	¼	¼	¼	¼	5/16	5/16	5/16	5/16	5/16	3/8	3/8
Thickness Heads, inches	3/8	3/8	3/8	3/8	3/8	3/8	3/8	7/16	7/16	7/16	½	½	½	½
Diam. Stack, if vertical, ins.	14	14	16	16	20	20	20	24	24	26	28	28	32	36

*In computing water radiation add 40 per cent. to steam capacity.

Where we furnish Horizontal Tubular Boilers to be set in brick work, **we will furnish without additional charge blue print plans showing the brick setting.** These boilers are particularly desirable in green house heating. **We remodel steam boilers into water boilers for greenhouse heating when water is to be used.** Our boilers when overhauled and rebuilt will give you practically as good service as new boilers, and our prices will be found very much less than new. We have boilers of the same general specifications as above in strictly first-class condition to be used for power up to 100 or 150 lbs. pressure. Write us for anything in this line that you may need. **Prices on any of the above boilers furnished on application.**

Fire Box Boilers



Our stock of Fire Box Boilers is constantly changing but we always have on hand upwards of fifty or one hundred boilers in various sizes for heating jobs. We recommend the use of these boilers where a low priced economical boiler is required. **These boilers are all thoroughly overhauled by us, carefully cleaned inside and out, and any repairs that may seem necessary to put them in A1 condition are made. We thoroughly test our boilers here and guarantee them.** The Fire Box Boilers can be brck set as shown in above illustration, or can be set without brickwork. We will furnish the boilers with smoke box extension and stack connection, so that they can be set without brickwork when desired. **In steam jobs we furnish the boilers with a complete set of steel trimmings.** Following is the rating of standard sizes:

Diameter of Shell, inches	30	30	30	36	36	36	42	42	42	48	38	48	54	54
Length over all, feet	6½	7½	8½	7½	9	10½	8½	10	11½	10½	12	13½	14	16
Size of Smoke Stack, inches	16	16	16	18	18	18	20	20	20	22	22	22	24	24
Capacity, direct steam	900	1000	1200	1400	1700	2100	2200	2500	2900	3200	3800	4400	4900	5800
Capacity, direct water	1400	1600	1900	2200	2700	3400	3500	4000	4600	5100	6100	7000	7800	9300

Ornamental New Radiation

CAST IRON RADIATORS FOR STEAM OR WATER

NET CASH PRICES PER SQUARE FOOT OF HEATING SURFACE

Height, inches....	45	38	32	26	20
Steam Radiation..	$0.18	$0.18	$0.23	$0.25	$0.27½
Hot Water Radi'n.	.19	.19	23	25	27½

No. of Sections	Length, 2¾ inches per Section	HEATING SURFACE, SQ. FEET: 45 inch. high, 5¼ sq. feet per Section	38 inch. high, 4⅜ sq. feet per Section	32 inch. high, 3¾ sq. feet per Section	26 inch. high, 2¾ sq. feet per Section	20 inch. high, 2¼ sq. feet per Section
2	5	10½	8⅜	7	5½	4½
3	7½	15¾	13	10½	8¼	6¾
4	10	21	17½	14	11	9
5	12½	26¼	21⅞	17½	13¾	11¼
6	15	31½	26	21	16½	13½
7	17½	36¾	30½	24½	19¼	15¾
8	20	42	34⅞	28	22	18
9	22½	47¼	39	31½	24¾	20¼
10	25	52½	43½	35	27½	22½
11	27½	57¾	47⅞	38½	30¼	24¾
12	30	63	52	42	33	27
13	32½	68¼	56½	45½	35¾	29¼
14	35	73½	60⅞	49	38½	31½
15	37½	78¾	65	52½	41¼	33¾
16	40	84	69½	56	44	36
17	42½	89¼	73⅞	59½	46¾	38¼
18	45	94½	78	63	49½	40½
19	47½	99¾	82½	66½	52¼	42¾
20	50	105	86⅞	70	55	45
21	52½	110¼	91	73½	57¾	47¼
22	55	115½	95½	77	60½	49½
23	57½	120¾	99⅝	80½	63¼	51¾
24	60	126	104	84	66	54
25	62½	131¼	108⅓	87½	68¾	56¼

Each Section 7¾ inches wide. Width of legs 8 inches.

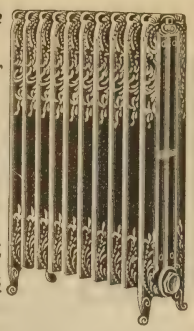
TAPPINGS.

All Radiators containing 26 feet or under, 1 inch.
All Radiators containing above 26 feet but not exceeding 60 feet, 1¼ inch.
All Radiators containing above 60 feet but not exceeding 112 feet, 1½ inch.
All Radiators containing above 112 feet, 2 inch.

New Radiation

THREE COLUMN CAST IRON

OWING TO MARKET FLUCTATIONS PRICES ON RADIATION ARE SUBJECT TO CHANGE



PRICES PER FOOT

Height, inches....	45	38	32	26	20
Steam Radiation..	$0.18	$0.18	$0.23	$0.25	$0.27½
Hot Water Radi'n.	.19	.19	23	25	27½

No. of Sections	Length in inches	HEATING SURFACE, SQ. FEET: 45 inch. high, 6¾ sq. feet per Section	38 inch. high, 5⅛ sq. feet per Section	32 inch. high, 4¼ sq. feet per Section	26 inch. high, 4 sq. feet per Section	20 inch. high, 3¼ sq. feet per Section
3	7½	19½	16½	14¼	12	9¾
4	10	26	22	19	16	13
5	12½	32½	27½	23¾	20	16¼
6	15	39	33	28½	24	19½
7	17½	45½	38½	33¼	28	22¾
8	20	52	44	38	32	26
9	22½	58½	49½	42¾	36	29¼
10	25	65	55	47½	40	32½
11	27½	71½	60½	52¼	44	35¾
12	30	78	66	57	48	39
13	32½	84½	71½	61¾	52	42¼
14	35	91	77	66½	56	45½
15	37½	97½	82½	71¼	60	48¾
16	40	104	88	76	64	52
17	42½	110½	93½	80¾	68	55¼
18	45	117	99	85½	72	58½
19	47½	123½	104½	90¼	76	61¾
20	50	130	110	95	80	65
21	52½	136½	115½	99¾	84	68¼
22	55	143	121	104½	88	71½
23	57½	149½	126½	109¼	92	74¾
24	60	156	132	114	96	78
25	62½	162½	137½	118¾	100	81¼

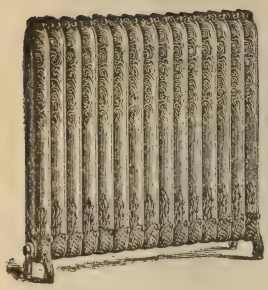
TAPPINGS.

All Radiators containing 26 feet or under, 1 inch.
All Radiators containing above 26 feet but not exceeding 60 feet, 1¼ inch.
All Radiators containing above 60 feet but not exceeding 112 feet, 1½ inch.
All Radiators containing above 112 feet, 2 inch.
Each Section is 9½ inches wide; width of Legs, 10¾ inches.
Distance from floor to center of Tapping, 5 inches.

NOTE.—In ordering, always mention whether for steam or water, and if for steam, whether for one or two pipe, or for atmospheric or vapor system For steam, one pipe tapping will be regularly supplied, unless otherwise specified.

RADIATION.

REBUILT.



Cast Iron Radiator.

In connection with our purchasing and dismantling, we secure large numbers of fine radiators. We have them in all styles, for steam and water; for factory, residence, public halls. and other purposes. If you will write us your requirements in the heating line, we will make you a proposition to furnish you all of the material necessary to install your plant. Write us your wants. We can save you money. At the present time our stock of rebuilt radiators includes anything you require. They are in fine condition, have been rebuilt, and every radiator is tested under cold water pressure before shipment. You can purchase without hesitation. We guarantee them. Our stock consists of the following:

Pipe Radiator.

CAST IRON RADIATORS.

Our stock consists of 2 and 3 column steam and water radiators, ranging in heights from 18 to 45 inch. We can furnish almost anything required in 38 inch radiators, either 2 or 3 column. These radiators are standard size, and contain 4 sq. feet of heating surface to the 2 column, and 5 sq. feet to the 3 column. They are very ornamental in pattern, and suitable for the best residence purposes. Prices as follows:

For Steam.

Heights up to 24 inch, price per square foot of heating surface..... **$0.18**
Heights from 24 to 32 inch, inclusive, per square foot of heating surface.... **.17**
All other heights, per square foot of heating surface..... **.15**

For Water.

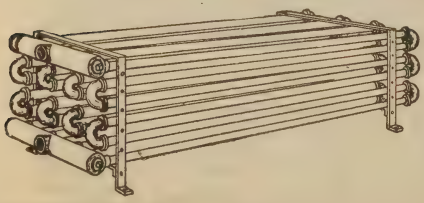
Heights up to 24 inch, price per square foot of heating surface..... **$0.18**
From 24 to 32 inch, inclusive, per square foot of heating surface..... **.17**
All other heights, per square foot of heating surface..... **.16**

PIPE RADIATORS.

These radiators are shown in the above illustrations. They are constructed of upright lengths of standard black wrought iron pipe, usually 1 inch in diameter. They have fancy cast iron substantial bases, are fitted with return bends on top, and have a cast iron cover. We have them square, oblong and circular. They are, as a rule, 36 inch in height on an average, although we have some from 20 inch up; also some that are much higher. They range in size from 15 sq. feet of heating surface up to 250 sq. feet of heating surface. The openings can be made any size required, and can be used on either single or two-pipe system.

Price per square foot of heating surface..... **$0.13**

BOX COILS.



Made of 1-inch standard black wrought iron pipe, with return bends and headers —splendid for factory heating. They are in various shapes, and ranging in sizes from 25 to 200 square feet of heating surface to each coil. These radiators are computed on the basis of about 3 lineal feet of pipe to 1 square foot of heating surface.

Price per square foot of heating surface..**$0.13**

TESTIMONIALS

T. W. JENNINGS, President. INCORPORATED 1900. J. M. BARKER, Sec'y and Treas

BRUNSWICK TOBACCO COMPANY.

—MANUFACTURERS OF—

TWIST AND SMOKING TOBACCO

DIRECTORS:
T. W. JENNINGS
L. M. JENNINGS
J. M. BARKER
F. P. BARKER

BRUNSWICK, MO., 3/28/6.

Mr. F. J. Smyth,

Caruthersville, Mo.

Dear Sir:-

Your favor of the 22nd was received while I was away from home, hence this delay in answering same. In reply I beg to say that I bought a Hot Water Plant from the Chicago House Wrecking Co. last Fall, and I installed it myself. The plant consisted of one No. 176 Hot Water Boiler capacity of 900 feet, 8 radiators, flow mains, connections etc. and cost complete ready to set up $284.00 F.O.B. cars Chicago.

My house is a nine room house with high ceiling. I sent the Company the plans and they arranged the plant to suit. I had never had any experience in plumbing to amount to anything, yet I installed the plant without any trouble, and it has never given me a particle of trouble. I burn the ordinary soft coal, and we have no trouble in heating the whole house like Summer day and night. I attend to the furnace morning, noon and night, and my Wife never has to look at it, as the dampers are worked from a chain up stairs. It is rarely below 70 degrees when we get up in the morning, and I won't use much over Thirty Dollars worth of fuel this winter, and I have not tried to save fuel either. We have a good many hot water plants in town, but mine is the only one that has given complete satisfaction in all kinds of weather, in fact it has been the talk of the town. The great trouble with our local plumbers is that they put in the plants too small, and in severe weather, they cannot get it warm enough. The cheapest I could get any one around here to figure on my job was $600.00, and I don't think I would have received near as good a job as I got. Any way I would not want any better one.

My best advice to any one about to put in a Hot Water plant would be to put in a good one with plenty capacity, a poor one is worse than nothing for there is no way to stretch it after you get it in, a good one is a thing of beauty and a joy forever.

The Chicago House Wrecking Co. furnished the heating apparatus for heating our factory, and all the dealings we have had with them have been very satisfactory. If I can be of any further help to you in any way I would be very glad to do so.

Yours very truly,

Dict. J.M.B.

J. M. Barker

JULIAN C. RYER, ARTHUR W. MAY.

LAW OFFICES
RYER & MAY

234 La Salle Street, Chicago.

Telephone, Harrison 1853.
March 13, 1908.

Chicago House Wrecking Company,
Chicago, Ill.

GENTLEMEN:—The hot water plant that I purchased from you last fall and had installed in my house in Oak Park, replacing a hot air furnace which failed absolutely to heat house, has given entire satisfaction.

During the extreme cold weather of last winter, I had no trouble in keeping the temperature of my house at between 65 and 75 degrees throughout without pushing the boiler to its limit.

I take pride in showing my plant to those who have so far come out to inspect it, and cheerfully recommend the plant to anyone desiring a first class heating plant.

Respectfully yours,

Dic. A. W. M. ARTHUR W. MAY.

Send Us Your Lumber Bill for Our Estimate. We Will Save You 50 Per Cent.

SATISFACTORY HEATING PLANTS.

TESTIMONIALS FROM SATISFIED CUSTOMERS.

We give herewith expressions of opinion from a number of our customers who have **purchased heating plants from us,** and have either **set them up themselves or under their own supervision** from the **plans and instructions which we furnished.** Most of these men had **absolutely no knowledge of pipe or pipe work,** and yet their plants work perfectly. Failure is impossible. Read what they say. You are at liberty to write to any of these people for further information. We only request that, as a matter of courtesy, you enclose with your letter an addressed stamped envelope for their reply.

This Customer is More Than Pleased.

Jno. S. Cameron, Supt. of Igleheart Bros. Flour Mill, Evansville, Ind., who has one of our No. 68 water boilers and eleven radiators, a total of 540 feet of radiation, writes that his **heating plant is giving entire satisfaction.** That the boiler is very easily handled, that **his boy ten years old runs the plant** all the time. He states circulation in the **plant is perfect** and that there is **plenty of heat in every room.**

This Customer Says He Has the Best Heating Plant in His Town.

Sanford Jackman, Montpelier, Ohio, who has water plant with one of our No. 67 boilers and about 450 feet of radiation, writes that his heating plant is the finest in town. Several of his neighbors who have **plants installed by local dealers are complaining of not getting enough heat,** but he is not bothered that way. His plant is **giving him entire satisfaction.**

Mr. Frew Bought His Plumbing and Heating Material From Us, and Installed it Himself.

Jas. Frew, 2421 Depot St., Fort Madison, Iowa, who has one of our No. 66 steam boilers, radiators, etc., writes that the heating plant, as well as plumbing fixtures, which he purchased from us are giving entire satisfaction.

This One From Illinois.

THE MARION ELECTRIC LIGHT COMPANY of Marion, Ill., state that their heating plant, consisting of one of our No. 65 water boilers and about 250 feet of radiation is giving perfect satisfaction. Signed, W. E. Fish, Supt.

Skeptical Neighbors Tried to Discourage This Customer From Ordering Away From His Home Dealers.

J. M. Barker, Secretary of the Brunswick Tobacco Co., Brunswick, Mo., who has a No. 176 water boiler and about 600 sq. ft. of radiation, writes us as follows:

"I finished installing the plant the first of December and fired it up immediately, and from that time to this **it has never given a minute trouble.** I am burning a cheap grade of soft coal, and during the recent cold spell with it **6 degrees below zero,** have not had to fire it but **morning, noon and night,** three times a day, and do not have the damper open more than an hour altogether during the day, so you see I do not have to crowd it much, in fact I firmly believe that it **would heat a house twice the size of mine.** The heat does not go down over four or five degrees during the night, and it is often 70 in the house when we get up in the morning during this zero weather, which I think is **pretty good on soft coal.** This is the **only plant put in, in this section that has ever given complete satisfaction.** I would be afraid to say how many people have been to see it, and if I had the time to put them in, I could sell a half dozen plants or more this coming summer. As it is, I will be in the market for **two plants like mine,** and will begin to figure on them in April. I do not think I will burn over **$25.00** worth of fuel this winter, and

TESTIMONIALS—Continued.

one of my neighbors who has a hot water plant installed by a local dealer, **has burned nearly $100.00** worth of the Semi-Anthracite already, and has never been warm a day. **My plant is the talk of the town.** I could not want a better one." Signed J. M. Barker.

This Steam Plant is Perfectly Satisfactory.

Jno. Schultz, President of Schultz, Baujan & Co., of Beardstown, Ill., who has one of our No. 86 Perfection Cast Iron Sectional Steam Boilers, and about 450 feet of steam radiation, writes under date of Feb. 16th, that the plant is giving entire satisfaction. and he is very highly pleased with same.

Here's One From Nebraska.

Prof. Herbert Brownell, of the Department of Physical Sciences, of the Nebraska State Normal School, Peru, Nebr., who has one of our No. 177 steam boilers and about 450 feet of steam radiation, writes that his heating plant is giving entire satisfaction, and that a **number of his associates in the school are proposing to install our steam plants this coming summer.**

This Customer Has Bought His Second Plant.

G. Powell, Cherokee, Iowa, has installed two of our heating plants, one a No. 67 water boiler, and the other a Keystone boiler, and says that both plants are giving perfect satisfaction in every way. **He does not think there are any other heating plants in his City any more satisfactory or anything near as economical in the use of fuel** as the two he purchased from us and installed.

Mr. Bruce is a Lawyer and Was Rather Skeptical, But We Gave Him a Binding Guarantee. He Has Reported This Spring That He Used Only About $36.00 Worth of Fuel For Last Winter.

Mr. Milo M. Bruce, of Bruce & Bruce, Attorneys, Hammond, Ind., has one of our No 67 boilers and eleven radiators, and states he has no trouble whatever to keep his house at **74 degrees without any crowding,** as he usually keeps the back damper closed except a little while in the morning. Mr. Bruce says that he has the **smallest boiler in his neighborhood, but it is a wonder.** One of his neighbors has a boiler more than twice the size of his, with just the same amount of radiation, and is burning more than **twice as much coal as Mr. Bruce,** and his neighbor is **unable to heat his house,** and has actually had to start up his base burner to keep warm in the cold weather. His neighbor's hot water plant was installed by one of the local dealers. Mr. Bruce says his boiler is very easily cared for. That on several occasions when he was compelled to be away from home for days at a time, his wife has taken care of the plant without any trouble. **Mr. Bruce installed his plant himself at an expense of $22.50 for a helper and three days of his own time.**

Here's Another From Illinois. It is a Hot Water Plant With About 300 sq. ft. of Radiation.

H. O. Adams, Effingham, Ill., writes us he has used his heating plant for two winters and is well pleased with it.

THE CAPTAIN SAYS OUR BOILER IS A WONDER, Never Saw Anything to Equal It

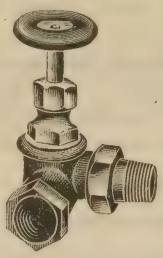
Capt. John McWeeny, Commanding Officer at the Hyde Park Police Station, Chicago had a hot water heating plant installed some years ago, and the boiler never gave him satisfaction. So in the Fall of 1905, he took out the old boiler and installed one of our No. 67 Cast Iron Sectional Boilers. He says this boiler **only burns one quarter as much fuel as he formerly used,** and now he is able to keep his house **thoroughly warm all the time,** where formerly they frequently were unable to heat the house, no matter how much fuel they burned

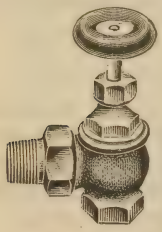
RADIATOR VALVES AND PIPE COVERING

RADIATOR VALVES

No. 19. Jenkens' Disc, Corner Radiator Valves with Union Nickel Plated. Brand New. Left hand or right hand. In ordering be sure to state kind. wanted. Illustration shows R. H. Cor. Valve.

Size, in.,	1	1¼	1½	2
Price, ea.,	$1.30	1.75	2.25	3.80





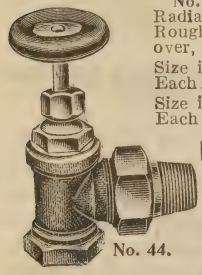
No. 16. Jenkens' Disc, Radiator Angle Valves, with union. Nickel Plated all over.

Size, ins.	¾	1	1¼
Each	$0.65	.80	1.10
Size, ins.		1½	2
Each		$1.40	2.25

No. 8. Lock Shield Radiator Valves, Jenkens' Disc, with unions.

Size, ins.	¾	1	1¼	1½	2
Price each	$0.65	.80	1.10	1.40	2.25

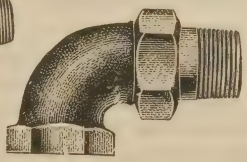
Keys, extra each $0.08



No. 44. Brand new Hot Water Radiator Valves. Quick opening. Rough body, nickel plated all over, with union.

Size ins.	¾	1	1¼
Each	$0.50	.62	.85
Size ins.		1½	2
Each		$1.25	1.85

Hot Water Union Elbows



No. 45. Brand new Solid brass. Nickel plated all over.

Size ins.	¾	1	1¼	1½	2
Price, each	$0.35	.44	.54	.70	1.17

Air Valves

No. 13. Compression Radiator Air Valves. All Brass. Brand new. Size, ⅜ inch.

Price, each $0.09
Per doz 0.90

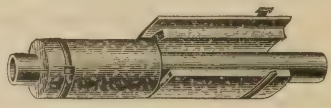
Automatic Radiator Air Valves

For Steam.

Nickel Plated.

Price each $0.44

MOLDED SECTIONAL PIPE COVERING



This form of covering is offered as the most durable and effective molded non-conducting covering yet produced. It is absolutely fire-proof, and is made in sections of all sizes, three feet long, which are provided with a canvas jac t and metal bands to hold them firmly i place, can be easily applied by unskilled workmen. All that is necessary is to paste the canvas flap down firmly and put on the bands.

No. H 591 Wool Felt Covering

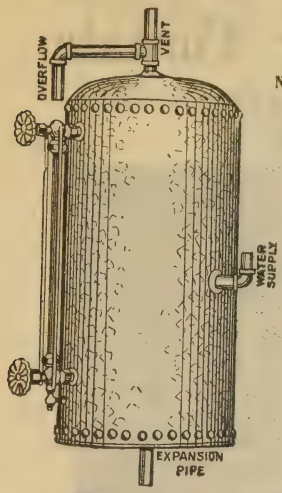
Inside Diameter of Pipe.	Price Per Section of 3 feet.
1-2 inch	$0.18
3-4 inch	.19
1 inch	.21
1 1-4 inch	.23
1 1-2 inch	.26
2 inch	.29
2 1-2 inch	.31
3 inch	.35
3 1-2 inch	.40
4 inch	.44
5 inch	.52
6 inch	.59
7 inch	.75
8 inch	.80

No. H 592 Asbestos Covering

Inside Diameter of Pipe.	Price Per Section of 3 feet.
1-2 inch	$0.20
3-4 inch	.22
1 inch	.25
1 1-4 inch	.28
1 1-2 inch	.30
2 inch	.33
2 1-2 inch	.37
3 inch	.42
3 1-2 inch	.47
4 inch	.57
5 inch	.65
6 inch	.75
7 inch	.90
8 inch	.99

No. 593. Asbestos Cement in bags of 100 to 125 lbs. each at per bag 1.40
Smaller quantities, per lb ..... .03

We are Constantly Buying Stocks at Sheriffs' and Receivers' Sales.



PRICE LIST OF GALVANIZED STEEL EXPANSION TANKS.

No. H 604 These prices include the tank, gauge cocks with brass body, iron wheels and protecting guards, as shown, but do not include the inlet or outlet fittings.

CAPACITY	SIZE	SQUARE FEET OF RADIATION	PRICE TANK AND GAUGE
8 gallons	10 in. by 20 in.	250	$ 4.00
10 "	12 " " 20 "	300	4.50
12 "	12 " " 24 "	400	5.00
15 "	12 " " 30 "	500	6.00
18 "	12 " " 36 "	600	6.50
20 "	14 " " 30 "	700	7.50
24 "	14 " " 36 "	850	8.00
26 "	16 " " 30 "	1000	8.30
32 "	16 " " 36 "	1300	8.75
42 "	16 " " 48 "	2000	9.42
66 "	18 " " 60 "	3000	17.00

FLOOR SLEEVES.

No. H 605 Galvanized Perforated Floor Sleeves.

Sizes, inches.	Prices, each.
¾	$0.30
1	.35
1¼	.40
1½	.45
2	.50
2½	.55

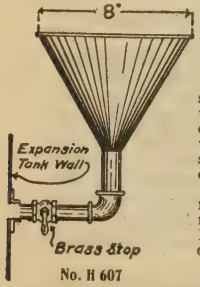
HOT WATER THERMOMETER.

Hot Water Thermometers for Hot Water Boilers registering up to 220 degrees, guaranteed accurate. We can furnish these straight as shown in the illustration herewith, each . . $0.90

Angle for use on risers or circulating pipe, each $1.10

Each Thermometer is sent out carefully packed in a separate wooden box, and is guaranteed accurate. Do not loosen the set screw nor attempt to change thermometer to face in different way. Handle very carefully, as they are fragile.

No. H 606



No. H 607

FUNNEL AND VALVE.

For filling hot water system with a bucket. The thread is reduced to 1 in. entering the side opening to the expansion tank. The stop valve should be kept closed except when filling.

Price including 1¼ x 1 reducing ell, 2 1 in. short nipples, 1 1 in. L. H. Stop, 1 8 in. funnel with threaded outlet $1.50

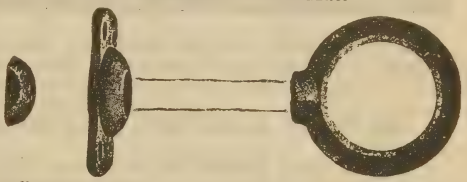
ALTITUDE GAUGE.

Altitude Gauge for indicating the height of the water in the system. The figures indicate the height of water in feet. The red hand is movable. When you determine the height of the water to just fill the system correctly, set this red hand at that point, and then the indicating hand should be right on top of it. Any deviation of the pointer indicates change in level of the water.

No. H 609

Price $1.25

EXPANSION PIPE HANGERS.



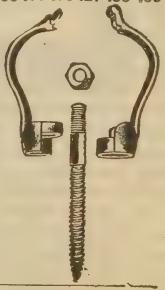
No. H 610 We do not furnish the Extension rod or nipple. These are usually cut to fit on the job.

Sizes, inches.	1	1¼	1½	2	2½	3	4	5	6	8
Prices each.	.04½	.05	.06½	.07½	.09	.11	.16	.27	.35	.60

KELLY AND JONES ADJUSTABLE HANGERS.

No. H 611

Sizes, inches.	Prices, each.
¾	$0.07
1	.08
1¼	.10
1½	.13
2	.15
2½	.18
3	.22
3½	.30
4	.35
8	1.30



No. H 608

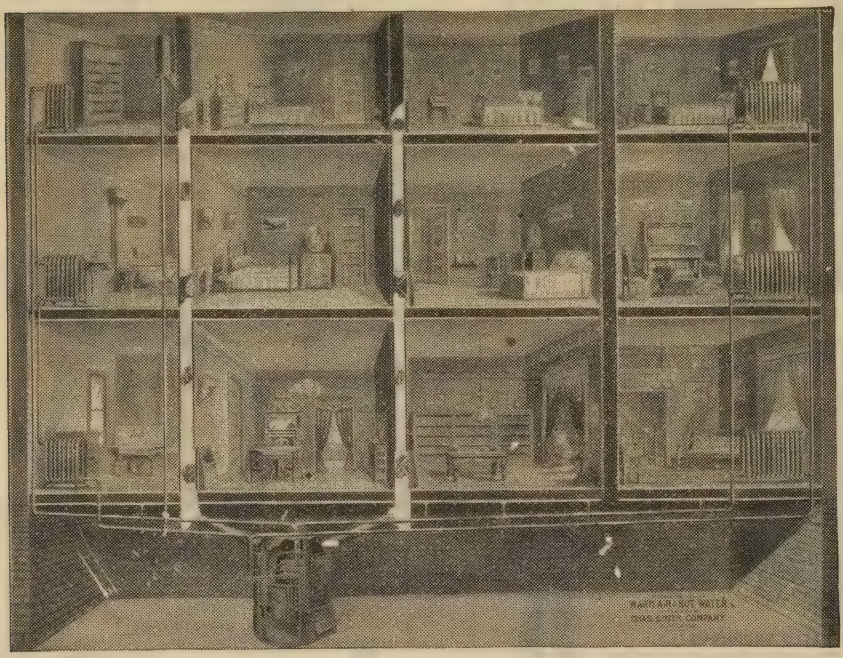
NICKEL PLATED FLANGES.

Nickel plated spun floor and ceiling flanges.

Size, inches	½	¾	1	1¼	1½	2
Floor flange, each	.04	.04	.05	.06	.07	.09
Ceiling flange, each	.06	.06	.07	.08	.09	.12

Hot Water Appliances for Furnace

If You Have a Furnace, You Undoubtedly Have One or More Rooms Not Satisfactorily Heated



It is impossible to heat with warm air a room, distant from the furnace, where a long and almost level pipe has to be used. Especially is this true in regard to the second floor chamber, where, in addition to the long pipe in basement, there is usually not sufficient room in partition to admit a wall stack large enough to carry the required volume of air.

A HOT WATER RADIATOR in such a room insures a temperature that is pleasant and satisfactory.

A HOT WATER RADIATOR in a front hall has a wonderful effect in moderating the temperature of the rooms on each floor opening into the hall.

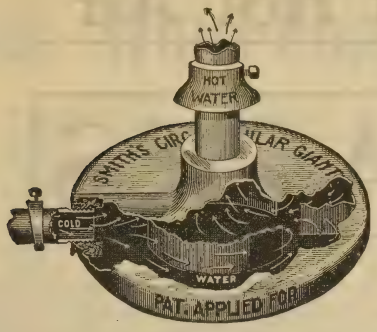
Many store buildings have offices or apartments above the store, all of which can be heated with HOT WATER, and the store floor with WARM AIR.

Our Smith's Patent Hot Water Appliances enable you to about double the capacity of your furnace.

The illustration on page above shows a combination of Little Giant placed in the furnace and heating some of the exposed rooms of a house with hot water. These appliances can be used in various sizes to heat from one to a dozen rooms. If the diameter of the furnace fire pot is not large enough to permit using a single "Giant" big enough to supply the radiation, the appliance can be made up with the Maltese heater, using one, two, three or four of these Maltese heaters, connecting one above the other. The arms are placed in such a manner that the heat passing up through the cut out surface of one comes in direct contact with the arm of the one above. This makes a very efficient heater, and can be built up to carry as high as six or eight hundred feet of radiation. From the convenience with which these heaters can be built to large size, and from the perfect internal circulation that they have, they are without question the finest appliance of this kind on the market.

We will be glad to figure up for you the best kind of a heater for your use, one of the right size to heat any number of rooms you may need. We have a blank that will enable you to give us all the information we require very easily, and if you will write us, stating what you need, we will send you one of these blanks. You can fill it out and we can then make up a complete detailed estimate of all the material you require to install this hot water appliance in connection with your furnace.

FURNACE APPLIANCES FOR HOT WATER



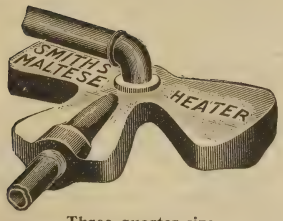
SMITH'S CIRCULAR GIANT

Can be placed in any furnace, but especially adapted to one with drum or dome, in which it acts as a deflector, throwing heat to sides of furnace and increasing the capacity very materially.

Will heat from one to eight rooms with hot water, and is also effective in heating large tanks. Has no joints; saves fuel and at the same time insures better heat.

Size Number	Diam., Inches	Size of Pipe	Cap. Sq. Ft. of Rad.	Price
14	14	1¼	75	$ 6 30
16	16	1½	100	8 40
18	18	2	150	11 20
20	20	2	200	14 00
22	22	2½	250	17 50
24	24	3	300	21 00

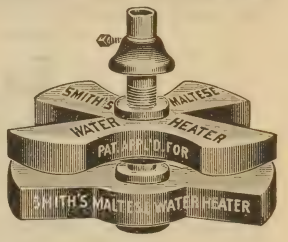
Two collars with set screws go with each Circular Giant.



Three-quarter size.

Smith's Maltese Heaters

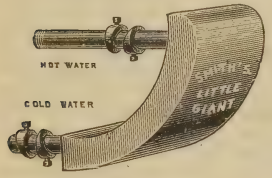
For Use in Any Surface Burning Heater



Diameter in Inches	Tapped	Height	Feet or Radiation	Heat, Gallon Tank	Price, Full Size	Price, ¾ Size
9	¾	2	30	30	$ 2 00	
12	1	2½	50	50	3 00	$ 2 10
15	2	3	75	75	4 25	3 50
18	2½	3	100	100	7 00	5 60
21	3	3	150	175	9 80	8 40
24	3	3½	200	225	12 60	11 20
27	3	3½	250	300	15 40	14 00
30	3½	4	300	350	21 00	19 00

No. 12 is also tapped for 1¼ pipe. Full size Maltese are tapped top and bottom and can be bushed for any pipe. When two or more are coupled together, the ¾ size is used as bottom section and is tapped on top and middle arm. Can tap either right or left arm, if so ordered. Two collars are sent with each heater. Add pipe surface to radiation when ordering.

SMITH'S LITTLE GIANT



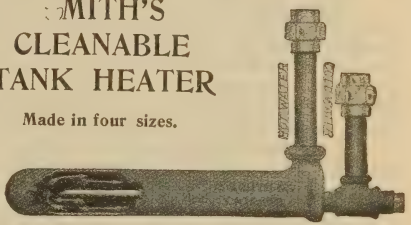
Is made in four sizes. Has no joints. Can be placed in any furnace. May be used to heat from one to four rooms, or in heating tanks, for which purpose it is unexcelled. Has been tested for years and has never been known to clog. Should be placed just above fire pot as shown in cut on opposite page. The capacities as given below are conservative, the heater is in many cases doing more than rated to do.

Size No.	Height	Width Inches	Size of Pipe	Bet. Center of Pipe	Cap'cy Sq. Ft. of Rad	Price
0	9	5	1	6½	30	$4 50
1	9	8	1¼	6½	50	5 50
2	0½	10	1½	8½	100	6 00
3	12	12	2	*	150	8 50

*No. 3 is tapped at top.
Two collars with set screws go with each Little Giant.

SMITH'S CLEANABLE TANK HEATER

Made in four sizes.



For use in steam or hot water boilers or warm air furnaces. One hole only is necessary about the fire pot. Heater can be disconnected easily, and cleaned of lime by solution or by removing plug it can be easily flushed out if necessary.

No.	Length	Outside Diam.	Tapped	Capac'y Galls.	Price
2	28 inch	2 inch	¾ inch	30	$2 50
3	32 "	2½ "	1 "	40	3 25
3½	36 "	2½ "	1 "	40	3 75
4	36 "	3 "	1¼ "	60	4 25

One collar, with set screw, with each heater.
When one street tree and two unions are furnished, No. 2, 35 cents extra; No. 3, 45 cents extra; No. 4, 60 cents extra.

Our Line of Hot Air

FURNACES

The only objection that can possibly be raised against a steam or hot water heating plant is cost. There are thousands of people who, while fully able to meet the cost of a good hot air furnace, would be compelled to resort to stoves if the expense of a furnace were as great as a steam or hot water heating plant.

Lowness of Cost

That is the strongest argument that can possibly be urged in favor of a hot air furnace and it certainly has considerable weight. If you can possibly afford it **we do very strongly advise you to install a hot water plant,** and we would give a steam plant second place, but if your means do not permit either of the above you need not despair: we can furnish you with a furnace which will not cost you much more than a first-class stove and it will be just as simple to connect it up in your building as it is to put up an ordinary stove pipe. The only difference is that it will take a little longer time as there is a little more of it. The only tools you will need are your two hands, a pair of snips and a saw to make a place for the registers in the floor.

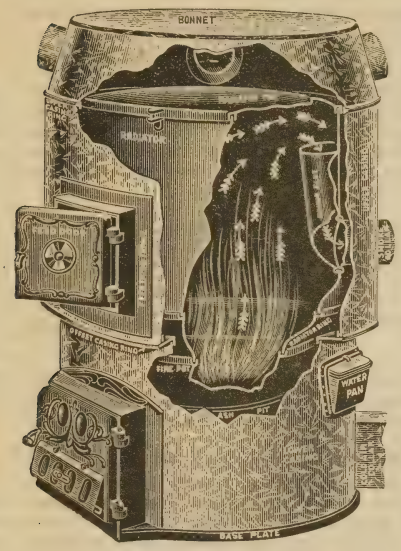
In presenting these furnaces to our customers, we do so with the utmost confidence in their merits. When we started out to look for a furnace to supply our customers we kept fully in mind the priceless reputation which we had built up in our steam and hot water heating business, and owing to the many unfavorable reports which we have been receiving from time to time from parties who had furnaces installed in their houses, it was with reluctance that we considered risking our reputation by taking on a line of furnaces. However, the inquiries which we have been receiving for furnaces have been increasing so rapidly that we have had to "sit up and take notice."

After investigating the matter we found that there were really several good furnaces on the market, which, if installed under proper conditions, could be relied upon to give satisfaction. It was then that we fully awakened to the situation. The reports which we had been receiving came only from the people whose furnaces were not satisfactory and who were compelled to install an auxiliary hot water heating arrangement of some kind. The satisfactory furnaces were never reported to us for the simple reason that those people who had satisfactory furnaces had no improvements to make and of course found no reason to correspond with us. **We made a deep study of this problem** and after sifting the matter to the bottom selected a number of the best furnaces on the market and analyzed them to the very core. The first general condition which became strikingly apparent was the fact that they all had some one or two exceptionally good features which were the very corner-stones of their success.

We recognized draw-backs in all of them, however, and we realized that there was a very broad field for improvement. It became clear to us that it would not be possible to embody all of the best features in any one particular design: a furnace that would most efficiently meet all the conditions on the Pacific Coast, where the weather is uncomfortably cold only for a few hours in the morning and warming up to a tropical temperature during the day, would prove a sad failure if left to its own resources in the more steady climate of our Middle West or the severe blizzards of New England and the entire northern section of our country. On the other hand, a furnace which would stand up to all the requirements under these later conditions would prove very inefficient and unnecessarily wasteful of fuel if given a try-out in a milder and more changeable climate.

Here, then, is the dividing line. If a furnace is to be designed to give the most efficient service in a mild and changeable climate it must have distinctive features—the radiator shell should be as thin as is consistent with durability, so as to present the highest temperature possible to the passing current of air

Our Whirl-Pool Draft Furnace



FEATURES

1. Burns anything combustible. Hence low cost of fuel.

2. Quick results from firing. Hence absolute independence of sudden temperature changes.

3. Whirling draft. Hence full heat value of fuel entirely obtained

4. Very high ash pit. Hence grates can not possibly burn out.

With the foregoing facts fully in mind it is not hard to appreciate the high degree of efficiency which is attained by our "WHIRL-POOL" DRAFT FURNACE shown in the accompanying illustration.

For efficiency and durability under the changeable conditions outlined in the foregoing, and lowness of cost we back this furnace against anything ever before offered. Requiring heat one day, none the next, only enough to take the chill off the rooms in the early morning, and so on, this furnace shines out above all others. A handful of wood, cobs, newspapers, or anything combustible will take the chill off your rooms in 10 minutes, and, where wanted for a long time, the fire can be kept so low that seemingly no fuel is consumed. However, we do not wish to convey the impression that this furnace is exclusively a wood burner. This is one of the very points on which our designers spent their utmost efforts, and we have produced a furnace which will take the chill off your rooms with a few handfuls of shavings or will take on a heavy hard or soft coal fire to provide for a sudden drop in the mercury with just as much indifference.

QUICK RESULTS FROM FIRING, AND HIGH POINT OF EFFICIENCY IN A VERY CHANGEABLE CLIMATE. Those are the points which our engineers have hammered on to the limit. If these are your climatic conditions you will make no mistake in selecting this furnace. As to their general details, no stone has been left unturned. The large, roomy combustion chamber permits the burning of anything combustible. The large firing-door will allow very large stumps or chunks of wood to be thrown into the fire without difficulty. The fire-pot has been molded in two separate parts, which does away with all danger of cracking and allows sufficient leeway for expansion and contraction when the fire is starting up or cooled off suddenly. Also note the deep ash-pit and the large casing for the circulation of the cold air.

We furnish with each furnace a complete set of trimmings such as a regulator plate with chains and pulleys, etc., shaker, poker, check damper, cement and water-pan.

PRICES AND DIMENSIONS.

No.	Size of fire-pot	Size of casing	Height	Capacity in cu. feet	Price	Price with double-lined casing
434	20-in.	34-in.	48-in.	8,000	**$27.00**	**$33.70**
438	22-in.	38-in.	50-in.	10,000	**32.00**	**39.35**
442	24-in.	42-in.	52-in.	14,000	**38.75**	**46.25**
446	26-in.	46-in.	54-in.	18,000	**44.00**	**52.70**
448	28-in.	48-in.	56-in.	22,000	**55.00**	**64.65**
458	30-in.	58-in.	56-in.	30,000	**63.00**	**73.70**

The above prices are all f. o. b. cars our factory. We will quote you prepaid prices to your station on request.

OUR ECONOMY FURNACE

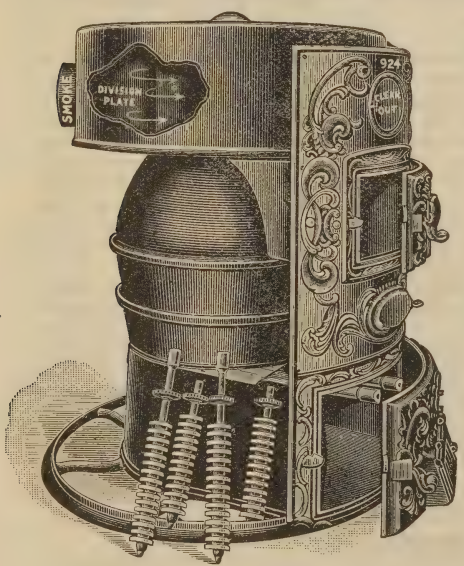
To meet the other conditions, where the climate is more steady and severe, we have designed our "ECONOMY" FURNACE shown in the accompanying illustration.

All of the best features in our "WHIRL-POOL" DRAFT FURNACE have been skilfully retained and brought out in this furnace and at the same time those particular points of design which necessarily had to be changed to meet the conditions have been very carefully altered, and the highest point of efficiency in the furnace under those particular conditions is the result. The castings had to be made heavier, and to overcome this and to properly transmit the heat they had to be designed in the most scientific manner possible.

Note the peculiar construction of the radiator body of this furnace. The entire fire-pot is cast in two separate sections and the radiator casting is deeply corrugated and divided in the center so as to allow for all excessive expansion and contraction which will develop when a very hot fire is being carried.

This furnace will burn either hard or soft coal or coke and will hold a long, steady fire for 12 hours at a time.

By thus specializing and separating the particular features which are most desirable to meet the general conditions of climate in our country it can be seen very clearly that we can embody in two furnaces all of the best points of design which render each especially well adapted for the particular requirements which it will have to meet. The question now remains—Which of these furnaces is best adapted to your particular case? You can very easily decide this after carefully reading what has been said, and you can rest assured that in ordering either of these furnaces you will be securing the entire benefit of the long and careful study which our engineers have given to this problem. If you install one of these furnaces in your house we can safely say that you have a furnace which represents the very top-notch of engineering perfection.

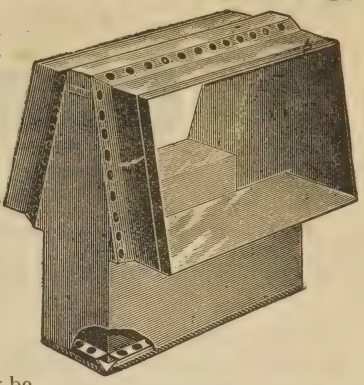


The general principles set forth in the foregoing pages have all been recognized by heating engineers for many years past. However, it remained for us to properly analyze this problem and demonstrate the fact that if a furnace is to give the most efficient results it must be designed for the special conditions which it is to work under. We have divided these conditions into two classes, and from our long experience in this heating business we are sure that there is no need for any further division. By specializing on these two particular furnaces and pushing their best features to the limit, at the same time cutting out all undesirable features, we can place these furnaces before our customers with the absolute assurance that they will give perfect satisfaction.

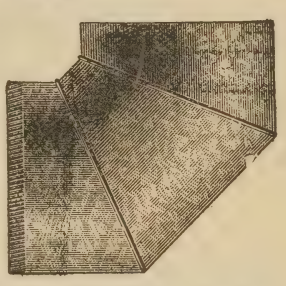
PRICES AND DIMENSIONS.

No.	Size of fire-pot	Size of casing	Height	Capacity in cu. feet	Weight	Price	Price with double-lined casing
20	20-in.	34-in.	48-in.	8,000	700 lbs	**$31.00**	**$37.70**
22	22-in	40-in.	52-in.	10,000	850 lbs.	**35.00**	**42.35**
24	24-in.	44-in.	54-in.	14,000	1,000 lbs.	**41.25**	**49.25**
26	26-in.	48-in.	56-in.	18,000	1,200 lbs.	**50.00**	**58.70**
28	28-in.	50-in.	58-in.	22,000	1,400 lbs.	**60.00**	**69.65**

WE FURNISH EVERYTHING



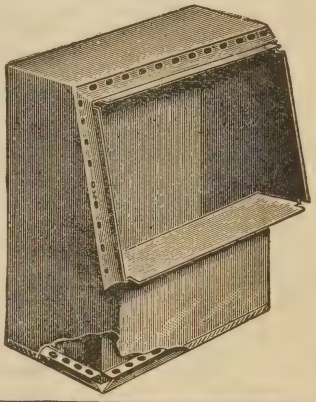
We are in a position to furnish you with absolutely everything that will be required to completely equip your home with one of these furnaces, to the very last detail. We have given just as much careful thought and study to the manner of installing this equipment as we have to the furnaces themselves. Every fitting and register, etc. is designed in the most scientific manner possible. The wall pipes which we furnish with our furnaces are all so constructed that there is 1 inch air space surrounding the entire pipe, and the registers are especially designed to work in harmony with this feature, being also of double construction, so that there is constantly going on a complete circulation of air between the two casings at all times. The air entering at the bottom of stack through holes provided for the purpose, and passing out at the top through similar holes in the floor and wall registers, forms an absolutely fire-proof insulator and does away with any possible danger. This feature can readily be understood by referring to the accompanying illustrations which show a section of the wall casing and two of the numerous forms of registers which are required in the average dwelling.



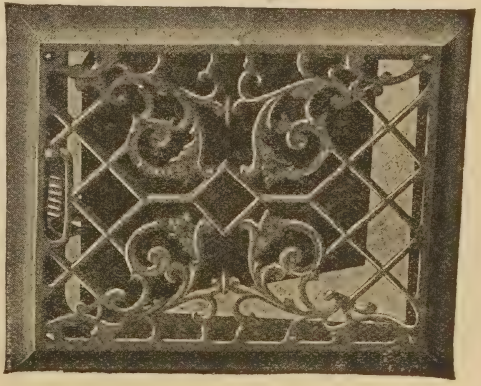
There is another feature which we have given especial attention in designing this apparatus, and that is

SIMPLICITY OF ASSEMBLING.

We realized fully that these furnaces, in the majority of cases, would have to be set up by our customers themselves, and we have arranged the sections in such a simple manner that a fourteen-year-old boy could, without any difficulty, set up the entire apparatus with the aid of the very clear instructions which we furnish. The item of labor in installing one of these furnaces is practicly not to be considered. You can set the entire plant up in five or six evenings, and the work is so easy that it is mere pastime. Furthermore, when you get it installed you will have a furnace which you can depend upon to give results, and you can rest assured that it will be installed right. You cannot possible go wrong; the exact location of every register and the exact size of every pipe is carefully determined by our highly skilled engineers who carefully consider all of the conditions as explained in the information blank which you furnish us to get our estimate, and everything is determined with scientific accuracy. If you let the job to your local tinner who has not had the scientific training necessary for designing a furnace of this kind he would probably locate the register in some corner of the room, which might look all right to him but under the conditions which the furnace would be working you would find after you tried to heat this room in certain kind of weather that it would be absolutely impossible to get the air to circulate in this direction. For this reason it is a very important matter where these registers are located, and the prevailing winds in your locality, the construction of your building, the surroundings, etc. all have to be carefully considered and weighed.



We take this entire responsibility upon ourselves, however, and when you get the furnace and your working drawings, this has all been carefully figured out for you, and all you have to do is to follow our blue prints.



WE LOAN YOU THE TOOLS.

We loan you all necessary tools, of which there will be very few, required to connect up all the piping. You will be at no expense whatever for these tools except for the expense of return freight charge.

PIPE AND CASING.

NEW STANDARD STEAM, GAS AND WATER PIPE.

Black and Galvanized.

Always in stock. Every piece carefully tested. Unless otherwise ordered, black pipe, random lengths, with threads and couplings, will be shipped.

Prices subject to change without notice

Nominal Inside Diam.	Actual Outside Diam.	Thickness	Nominal Weight Per Foot	No. of Threads Per Inch of Screw	Price Per Foot Black Pipe	Price Per Foot Galv. Pipe
⅜ inch	0.67 inch	.091 inch	0.56	18	$0.02½	$0.03½
½ "	0.84 "	.109 "	0.84	14	.03	.04½
¾ "	1.05 "	.113 "	1.12	14	.03½	.05¼
1 "	1.31 "	.134 "	1.67	11½	.05½	.06¾
1¼ "	1.66 "	.140 "	2.2	11½	.07	.08
1½ "	1.9 "	.145 "	2.68	11½	.08	.10
2 "	2.37 "	.154 "	3.61	11½	.11	.16½
2½ "	2.87 "	.204 "	5.74	8	.17	
3 "	3.5 "	.217 "	7.54	8	.23	
3½ "	4.00 "	.226 "	9.00	8	.28	
4 "	4.5 "	.237 "	10.66	8	.32	

SECOND HAND STANDARD BLACK PIPE.

For Steam, Water, Gas and Oil. It is of a second-hand nature, but is thoroughly practical for further use. It is all carefully inspected before shipment, being re-threaded, oiled and complete with couplings. It comes in random lengths, up to about 20 feet. We make an additional charge when ordered in special lengths, as noted below.

Pipe ordered cut to specified lengths, is not furnished with couplings.

Size Inside Diam.	Approximate Weight Per Foot	Black Pipe Price Per Foot	Size Inside Diam.	Approximate Weight Per Foot	Black Pipe Price Per Foot
⅜ inch	½ lbs.	$0.01½	3½ inch	9 lbs.	$0.19
½ "	¾ "	.02½	4 "	10½ "	.24
¾ "	1 1-10 "	.03	4½ "	12½ "	.28
1 "	1⅔ "	.03¾	5 "	14½ "	.33
1¼ "	2½ "	.04¾	6 "	18¾ "	.40
1½ "	2⅔ "	.06	7 "	23¼ "	.60
2 "	3⅔ "	.08	8 "	28¼ "	.67
2½ "	5¾ "	.12½	9 "	33¾ "	.85
3 "	7½ "	.17	10 "	40 "	1.05

EXTRA HEAVY BLACK WROUGHT IRON PIPE.

Second Hand—In Good Condition.

For Ice Manufacturing, High Steam Pressure, etc.

Size Inside Diameter	Approximate Weight Per Foot	Price Per Foot
¾ inch	1.39 lbs.	$0.05
1 "	2.17 "	.08
1¼ "	3 "	.11

CUTTING PIPE TO LENGTH.

We make the following additional charges for threading and cutting pipe to special lengths; price quoted is per thread. Couplings for special lengths pipe will be charged for extra.

Size, Diameter	⅜	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	7	8	9
Price, per thread	10c						15c	25c	30c	40c	50c	75c	80c	90c	1.00	1.25

WE HAVE AN ENORMOUS QUANTITY OF BOILER TUBING.

WROUGHT IRON LAP WELDED CASING.

We have several carloads of fine Wrought Iron Lap Welded casing, good as new. The threads are brand new cut, and it has long new couplings. It is not as heavy as the second-hand standard black pipe offered elsewhere, but will stand as high a pressure, and in fact, it will stand a higher pressure. Its quality is unexcelled. Specifications and prices as follows:

Insde Diameter.	Outside Diameter.	Approximate Weight Per Foot.	Price Per Foot.
1 3-4 inch	2 inch	2 lbs.	06c
2 inch	2 1-4 inch	2 1-4 lbs.	07c
2 3-4 inch	3 inch	3 1-3 lbs.	11c
3 1-4 inch	3 1-2 inch	4 1-2 lbs.	13c
3 3-4 inch	4 inch	5 1-2 lbs.	15c
4 1-4 inch	4 1-2 inch	6 3-4 lbs.	18c
5 5-8 inch	6 inch	10 3-4 lbs.	30c
6 1-4 inch	6 5-8 inch	13 lbs.	34c

LARGE FLANGE PIPE.

We offer for sale several carloads of wrought iron pipe, ranging in size from 6 to 18 inch diameter. It is fitted with cast iron flanges riveted on the pipe. Write us for information, stating your wants.

STEEL TUBES. FOR MANY USES.

These tubes are second-hand, but we pay much time and attention in thoroughly overhauling them, shipping only such tubes as are practical for further use. They have straight ends and are oiled. They are extensively used as hitching posts, columns, etc. Lengths 8 to 16 feet. These tubes are not suitable for retubing boilers. We are making low prices on first class boiler tubes.

We Can Cut Them to Any Length Desired.

Outside Diameter Inches	Approximate Weight Per 100 Feet	Price Per Foot
2	191	$0.06
2½	275	.07
3	333	.08
3½	428	.10
4	547	.12

BOILER TUBES FOR RETUBING PURPOSES.

We offer below an opportunity to purchase the finest selected Boiler Tubes at prices that mean an enormous saving to you. These Tubes are carefully inspected before shipment and we guarantee them absolutely satisfactory for retubing boilers of any kind.

We ship them forward with the understanding that you will be satisfied with them, and give you the privilege, upon inspection, to return them to us, provided you do not find them up to our representations, and you can return them then at our expense for freight.

We cut these tubes to length. They have square ends, are straight, and are practically free from rust and scales.

Outside Diameter, inches.	Thickness, inches.	Weight, per foot.	Price, per foot.
2	.095	1.92	$0.06½
2¼	.095	2.17	.07½
2½	.109	2.73	.08½
2¾	.109	3.08	.09½
3	.109	3.25	.10
3¼	.120	4.03	.1[illegible]
3½	.120	4.32	.12
3¾	.120	4.63	.13
4	.134	5.62	.14
4½	.134	6.17	.16

BRAND NEW LAP WELD STEEL BOILER TUBES.

We offer the new tubes for those who do not care to purchase second-hand tubes. The prices quoted apply only to regular stock lengths. Where it is necessary to cut to special lengths a charge of 2½ cents per cut, also a charge for any waste that would be caused by cutting stock lengths.

Outside Diam. Inches.	Price, Per Foot.	Outside Diam. Inches.	Price, Per Foot.
1½	$0.20	3	$0.18
1¾	.14	3½	.20
2	.12½	3½	.23
2¼	.15	3¾	.25
2½	.17½	4	.28
2¾	.17		

These Prices Apply only to Regular Stock Lengths.

CAST IRON PIPE FITTINGS.

ELBOW.

FIG. 3.

REDUCING ELBOW.

FIG. 5.

ELBOW.
WITH SIDE OPENING.

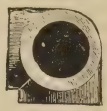


FIG. 7.

TEE.

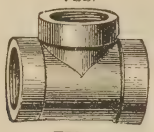


FIG. 4.

REDUCING TEE.

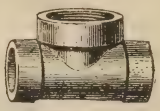


FIG. 6.

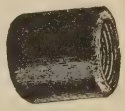
Nipple

FIG. 74.

REDUCING COUPLING.

FIG. 14.

COUPLING.



PLUG.

FIG. 13.

CAP.

FIG. 16.

STREET ELBOW

FIG. 84.

RETURN BEND
Close Pattern.

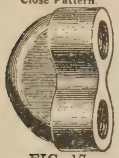


FIG. 17.

RETURN BEND.
Open Pattern.

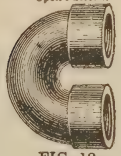


FIG. 18.

LOCKNUT.

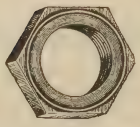


FIG. 19.

FLANGE UNION.

FIG. 28.

CROSS.

FIG. 10.

REDUCING TEE.

FIG. 8.

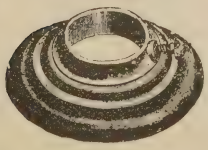
ELBOW 45°

FIG. 9.

BUSHING.

FIG. 11

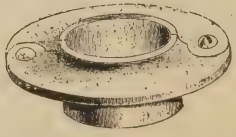
CEILING PLATE



UNION

FIG 20

FLOOR PLATE



We keep a complete line of fittings. If in need of any not listed, write us.

CAST IRON FITTINGS FOR WROUGHT IRON PIPE.

Fig.	Size, Inches.	¼	⅜	½	¾	1	1¼	1½	2	2½	3	4	5	6	7	8
3.	Elbows, Black	$0.02	$0.02	$0.02½	$0.03½	$0.04½	$0.06½	$0.08	$0.12	$0.20	$0.30	$0.50	$0.80	$1.10	$1.90	$2.70
	" Galvanized	0.04	0.04	0.05	0.07	0.09	0.13	0.16	0.24	0.40	0.60	1.00	1.60	2.20	3.80	5.40
4.	Tees, Black	0.03½	0.03½	0.04	0.05	0.06½	0.10	0.12	0.17	0.30	0.45	0.70	1.20	1.60	2.70	3.90
	" Galvanized	0.07	0.07	0.08	0.10	0.13	0.20	0.24	0.34	0.60	0.90	1.40	2.40	3.20	5.40	7.80
10.	Crosses, Black	....	....	0.07	0.09	0.11	0.17	0.22	0.32	0.53	0.80	1.30	2.25	2.80	4.90	7.00
	" Galvanized	....	....	0.14	0.18	0.22	0.34	0.44	0.64	1.06	1.60	2.60	4.50	5.60	9.80	14.00
13.	Plugs, Black	0.01	0.01	0.01	0.01½	0.01½	0.02	0.03	0.04	0.07	0.10	0.17	0.35	0.48	0.72	1.10
	" Galvanized	0.02	0.02	0.02	0.03	0.03	0.04	0.06	0.08	0.14	0.20	0.34	0.70	0.96	1.44	2.20
11.	Bushings, Black	....	....	0.02	0.02	0.03	0.03	0.04	0.05½	0.09	0.13	0.20	0.40	0.50	0.76	1.15
	" Galvanized	....	....	0.04	0.04	0.06	0.06	0.08	0.11	0.18	0.26	0.40	0.80	1.00	1.56	2.30
16.	Caps, Black	....	....	....	....	....	....	....	0.11	0.16	0.22	0.35	0.48	0.62	1.00	1.15
	" Galvanized	....	....	....	....	....	....	....	0.22	0.32	0.44	0.70	0.96	1.24	2.00	2.30
	Couplings, Black	0.01½	0.01½	0.02½	0.03	0.04	0.05	0.07	0.08	0.10	0.20	0 25	0.40	0.65	0.95	1.00
	" Galvanized	0.02	0.02	0.03	0.04	0.05	0.06	0.09	0.13	0.17	0.25	0.42	0.67	0.95	....	....
20.	Flange Unions, Black	....	....	0.16	0.19	0.21	0.26	0.32	0.40	0.50	0.60	0.85	1.30	1.60	2.25	2.90
	" " Galvanized	....	....	0.32	0.38	0.42	0.56	0.64	0.80	1.00	1.20	1.70	2.60	3.20	4 50	5.80
17.	Return Bends, Close, Black	....	....	0.08	0.09	0.10	0.12	0.17	0.25	0.50	0.75	....	....	....	....	....
	" " " Galvanized	....	....	0.16	0.18	0.20	0.24	0.34	0.50	1.00	1.50	....	....	....	....	....
18.	Return Bends, Open, Black	....	....	....	0.11	0.14	0.18	0.24	0.35	0.60	0.95	....	....	....	....	....
	" " " Galvanized	....	....	....	0.22	0.28	0.36	0.48	0.70	1.20	1.90	....	....	....	....	....
	Ceiling Plates, Black	....	....	....	0.05	0.06	0.07	0.09	0.11	0.14	0.20	0.27	....	....	....	....
	Floor Plates, Black	....	....	0.02½	0.02½	0.03	0.04	0.05	0.06	0.09	0.12	....	....	....	....	....
24.	Nipples, Short, Black	0.01½	0.01½	0.01½	0.02	0.02½	0.03½	0.04	0.06	0.12	0.15	0.25	0.45	0.55	0.95	1.05
	" " Galvanized	0.02	0.02	0.02	0.03	0.03½	0.05	0.06	0.08	0.17	0.21	0.40	0.70	0.84	1.27	1.50
	Nipples, Long, Black	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.18	0.22	0.36	0.73	0.85	1.10	1.20
	" " Galvanized	0.03½	0.03½	0.03½	0.04	0.06	0.09	0.10	0.14	0.25	0.33	0.56	0.93	1.25	1.50	1.75
5.	Reducing Elbows, Black	....	....	0.03	0.04	0.05	0.07½	0.10	0.13	0.25	0.37	0.60	0.95	1.35	2.25	3.20
	" " Galvanized	....	....	0.06	0.08	0.10	0.15	0.20	0.26	0.50	0.74	1.20	1.80	2.70	4.50	6.40
9.	45° Elbows, Black	....	0.03	0.03	0.04½	0.05	0.08	0.10	0.14	0.25	0.40	0.60	1.00	1.40	2.40	3.50
	" " Galvanized	....	0.06	0.06	0.09	0.10	0.16	0.20	0.28	0.50	0.80	1.20	2.00	2.80	4.80	7.00
8.	Reducing Tees, Black	....	....	0.05	0.06	0.07½	0.12	0.15	0.20	0.35	0.55	0.85	1.50	1.80	3.15	4.50
	" " Galvanized	....	....	0.10	0.12	0.15	0.24	0.30	0.40	0.70	1.10	1.70	3.00	3.60	6.30	9.00
	Reducing Crosses, Black	....	....	0.08	0.11	0.13	0.19	0.26	0.36	0.60	0.90	1.45	2.50	3.50	6.50	8.50
	" " Galvanized	....	....	0.16	0.22	0.26	0.38	0.52	0.72	1.20	1.80	2.90	5.00	7.00	13.00	17.00

NOTE. Reducing Tees thus 1 | ½ | ¾ are read 1x¾x½. Always give end openings first, then side openings. In ordering Reducing Crosses always mention all openings, reading straight across, then up and down: thus: 2 | 1 | 1 | 1¼ would read 2x1¼x1x1.

A JOB OF MALLEABLE IRON PIPE FITTINGS.

Just received two carloads of Malleable Iron Pipe Fittings. Brand new goods, which we are selling at extremely low prices.

CAST IRON MIXED BUSHINGS.

1,000 lbs. mixed, all kinds, just as they come, sizes ranging from ⅜ in. to 2 in.
Price per lb.....4c

MIXED MALLEABLE FITTINGS.

Lot No. 1. All kinds of Tees, Elbows, Crosses, etc. Not separated, some black, some galvanized. In this lot we do not accept orders for specified sizes. They are all tapped.

In lots less than 100 lbs.....Per pound, 5c
In lots of 100 lbs..... " " 4¾c
In lots of 250 lbs..... " " 4½c
In lots of 500 lbs..... " " 4¼c
In lots of 2,000 lbs..... " " 4c

UNTAPPED FITTINGS.

Lot No. 2. This lot represents fittings that have never been tapped, and come in sizes from ⅜ inch to 6 inches, black and galvanized, mixed together, at the following prices:

In lots less than 100 lbs.....Per pound, 2¾c
In lots of 100 lbs..... " " 2½c
In lots of 250 lbs..... " " 2¼c
In lots of 500 lbs..... " " 2c
In lots of 2,000 lbs..... " " 1¾c

GALVANIZED FITTINGS, TAPPED.

Lot No. 3. Mixed sizes, from ⅜ inch to 2 inches, and all kinds mixed together, just as they come.

In lots less than 100 lbs.....Per pound, 9c
In lots of 100 lbs..... " " 8¾c
In lots of 250 lbs..... " " 8½c
In lots of 500 lbs..... " " 8¼c
In lots of 2,000 lbs..... " " 8c

BLACK FITTINGS, TAPPED.

Lot No. 4. Mixed sizes, from ⅜ inch to 2 inches, and all kinds mixed together, just as they come, at the following prices:

In lots less than 100 lbs.....Per pound, 6c
In lots of 100 lbs..... " " 5¾c
In lots of 250 lbs..... " " 5½c
In lots of 500 lbs..... " " 5¼c
In lots of 2,000 lbs..... " " 5c

TAPPED FITTINGS, SPECIFIED SIZES.

Lot No. 5. Sizes separated and all tapped, that is, 1 inch mixed together, 1¼ inch mixed together, etc. In other words, we can give you any size you require, but will not separate the various fittings, such as eels, tees, etc., but will sell all kinds mixed: only separating the sizes, at the following prices,

Black fittings in any quantity...Per pound, 6c
Galvanized " " ..... " " 11c

No orders accepted for these mixed fittings in less than 25 pound orders

CASING FITTINGS.

See Cuts of these various fittings on page 43.

Sizes (outside diameter)	1 3-4	2	2 3-4	3	3 1-4	3 3-4	4 1-4	5 5-8
Bushings	$0.16	$0.16	$0.18	$0.18	$0.24	$0.30	$0.45	$0.75
Caps	.22	.22	.54	.24	.33	.39	.48	.71
Couplings	.10	.10	.20	.24	.27	.26	.46	.80
Crosses	.60	.60	.66	.66	.81	1.05	1.50	2.34
Crosses (Reducing)	.75	.75	.83	.83	.99	1.30	1.90	2.91
Elbows	.30	.30	.33	.33	.40	.54	.75	1.20
Elbows (Reducing)	.47	.47	.52	.52	.55	.67	.90	1.50
Elbows (45%)	.44	.44	.48	.48	.60	.81	1.12	1.65
Flange Unions	.60	.60	.67	.67	.83	.95	1.35	1.95
Locknuts	.13	.13	.15	.15	.21	.30	.40	.57
Plugs	.13	.13	.15	.15	.23	.25	.40	.72
Reducers	.33	.33	.36	.36	.45	.60	.83	1.20
Return Bends (closed)	.80	.80	.90	.90	1.20	1.50	1.95	....
Return Bends (open)	1.00	1.00	1.12	1.12	1.35	1.70	2.40	....
Tees	.40	.40	.45	.45	.60	.75	1.07	1.65
Tees (Reducing)	.50	.50	.56	.56	.75	.90	1.31	2.02
Y's	.90	.90	.97	.97	1.35	1.80	2.40	3.60

When Fittings are tapped, combination standard Pipe and Casing Threads, add 25 per cent. to the above prices.

BRANCH TEES OR MANIFOLDS

FOR CIRCULATION.

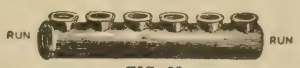


FIG. 22.

FOR CIRCULATION.

FIG. 23.

FOR BOX COILS.

FIG. 24.

All openings in Branch Tees for Circulation are tapped Right hand.
Branch Tees for Box Coils are always tapped Left hand in branches and Right hand in back inlet.

The Run and Back Openings are Tapped the same size as Branches.

No. of Branches.	1″ Branch Tees. 2½″ Center to Center.			1¼″ Branch Tees 3″ Center to Center			1½″ Branch Tees 3½″ Center to Center.			2″ Branch Tees 4½″ Center to Center.		
	1″ or 1¼″ Run.	1½″ Run.	2″ Run.	1¼″ or 1½″ Run.	2″ Run	2½″ Run.	1½″ or 2″ Run	2½″ Run.	3″ Run.	2″ Run.	2½″ or 3″ Run.	3½″ Run.
2.	$0.30	$0.35	$0.40									
3.	.38	.40	.50	$0.60	$0.70	$0.85	$0.95	$1.25	$1.55	$1.85	$2.00	$2.20
4.	.40	.45	.60	.75	.85	1.00	1.20	1.45	1.65	2.25	2.50	2.75
5.	.50	.50	.65	.85	1.05	1.20	1.40	1.80	1.90	2.70	3.00	3.25
6.	.60	.60	.75	1.00	1.20	1.35	1.65	2.10	2.20	3.10	3.50	3.75
7.	.70	.80	.85	1.15	1.40	1.50	1.85	2.30	2.55	3.75	4.25	4.75
8.	.80	.90	1.00	1.30	1.60	1.75	2.05	2.50	2.75	4.00	4.50	5.00
9.	.95	1.05	1.20	1.55	1.85	2.15	2.30	2.90	3.25	4.30	4.75	5.50
10.	....	1.20	1.45	1.75	2.05	2.40	2.70	3.25	3.50	4.70	5.25	6.00
11.	....	1.60	1.75	1.85	2.25	2.55	2.90	3.60	3.75	....	....	....
12.	....	1.75	1.85	1.95	2.40	2.70	3.00	3.80	4.00	....	....	....
13.	....	1.95	2.25	2.15	2.50	2.90	....	....	....	....	....	....
14.	....	2.50	2.55	2.40	2.75	3.15	....	....	....	....	....	....
15.	....	2.75	2.75	2.65	3.00	3.50	....	....	....	....	....	....
16.	....	3.00	3.00	3.15	3.30	3.80	....	....	....	....	....	....

1 inch Branch Tees, 1 inch or 1 1-4 inch run, are 1 3-4 inches inside diameter.

2 inch Branch Tees, 1 1-2 inch or 2 inch run, are 2 1-4 inches inside diameter.

1 1-4 inch Branch Tees are all 2 1-2 inches inside diameter.

1 1-2 inch Branch Tees are all 2 3-4 inches inside diameter.

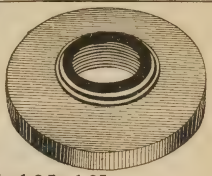
2 inch Branch Tees are all 3 1-2 inches inside diameter.

Always Order Branch Tees by Size and Number.

Let us make you a proposition on your Heating Plant. Tell us your requirements and we will give you much valuable information besides offering you an opportunity to save you money. We employ many men of brains.

CAST IRON FLANGES.

Diam. Flange Inches.	Size of Pipe—Inches.															
	⅜	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	7	8	9	10
3	$0.03½																
3½	.05																
4	.07	.07															
4½	.08	.08			.08	.11											
5	.12	.10	.10		.10	.14											
5½	.15	.14	.14		.14	.14	.12										
6	.17	.14	.14		.14		.14	.16	.17								
6½	..	..	.20		.17	.16	.17	.25	.30								
7½	..	..	..		.36	.30	.30	.28	.30	.40							
8½	..	..	.		.40	.40	.38	.40	.35	.45							
9	..	..	..		.45	.45	.45	.45	.45	.50	.50						
14	..	..	..		..	..	..	..	..	..	..	..	1.25	1.25	1.25		
16	..	..	..		..	..	..	..	..	..	..	..	..	..	1.75	1.75	$1.75



CAST IRON HOOK PLATES.

No. of Hooks	1	2	3	4	5	6
For 1 -inch Pipe 2½ inches between centers	$0.03	$0.06	$0.08	$0.09	$0.11	$0.13
For 1¼-inch Pipe 3 inches between centers	.03	.07	.10	.11	.14	.17
For 1½-inch Pipe 3½ inches between centers	.05	.10	.14	.20	.24	.30
For 2 -inch Pipe 4½ inches between centers	.07	.14	.20	.30	.38	.45

BRAND NEW IMPROVED SCREW CHAIN HOISTS.

To Raise, Pounds	Price	Will Lift, Feet	Extra Lift Per Foot	Weight of Machine lbs.	Shortest Distance Between Hooks, Ins.
1,000	$ 20.00	8	1.00	50	16
2,000	24.00	8	1.20	60	19
3,000	32.00	8	1.40	76	24
4,000	40.00	9	1.60	125	25
6,000	60.00	10	1.75	190	29
8,000	75.00	10	1.90	210	34
10,000	110.00	12	2.40	400	40
12,000	140.00	12	2.80	425	40
16,000	165.00	12	3.20	700	40
20,000	200.00	12	3.40	750	40

Brand New Weston Differential Chain Hoist.

Every hoist tested to full weight before shipment.

Capacity Tons	Price Complete	Will Hoist, Feet	Extra Hoist Per Foot	Regular Chain in Block Feet.
¼	$8.75	6	$1.30	22
½	9.25	7	1.30	26
1	13.00	8	1.40	30
1½	16.35	8½	1.50	33
2	22.00	9	1.60	36
3	27.00	10	1.80	38

Each foot of extra hoist includes 4 feet of chain.

Burr Safety Lifts.

The Burr Safety Lifts are made of the highest quality of steel used for such purposes and will last for an indefinite period with ordinary care. They have no wedge, eccentric, springs or teeth that will get out of order. The brake against which the rope is locked is smooth, and therefore, cannot injure the rope. We offer these blocks as follows:

No. 3. For ⅜-inch rope. One man can hoist 300 pounds. Double lower block, weight 4½ pounds, capacity 800 pounds. Price with common bearings, ... **$0.90.** With roller bearings ..... **$1.90.**

Size No. 4. For ½ inch rope, one man can hoist 350 lbs. Double lower block. Weight 6½ lbs., capacity 1500 lbs. Price, common bearings, **$1.65.** With roller bearings. **$2.75**

Size No. 5. For ⅝ inch rope, one man can hoist 400 lbs. Double lower block. Weight 11 lbs., capacity 2000 lbs. Price, common bearings, **$2.12.** With roller bearings, **$3.50.**

Size No. 6. For ¾ inch rope, one man can hoist 450 lbs., Double lower block. Weight 17 lbs., capacity 2500 lbs. Price, common bearings, **$2.60.** With roller bearings, **$4.25**

Size No. 4½. For ½ inch rope, one man can hoist 600 lbs. Triple lower block. Weight 10 lbs., capacity 300 lbs. Price, common bearings, **$3.05.** With roller bearings, **4.85.**

Size No. 5½. For ⅝ inch rope, one man can hoist 700 lbs. Triple lower block. Weight 20 lbs., capacity 3500 lbs. Price, common bearings, **$3.65.** With roller bearings, **5.85.**

Size No. 6½. For ¾ inch rope, one man can hoist 850 lbs. Triple lower block. Weight 28 lbs., capacity 5000 lbs. Price, common bearings, **$4.25.** With roller bearings, **$6.75.**

The prices and weights include upper and lower blocks. No rope included at the above prices. With roller bearings, one man can hoist ⅓ more than with the plain bearings.

MALLEABLE IRON FITTINGS.

SEE CUTS ON PAGE 81.

Size Inches	⅛	¼	⅜	½	¾	1	1¼	1½	2	2½	3
Fig. 3 Elbows Right Hand Black	$0.01½	$0.01½	$0.02½	$0.04	$0.06	$0.08½	$0.10	$0.14	$0.20	$0.32	$0.60
Fig. 3 " R and L " "	.....	.02	.02½	.05	.06¾	.10	.12	.16	.26	...	....
Fig. 3 " Right " Gal.	.....	.02	.03	.05½	.08	.13	.16	.24	.36	.64	1.00
Fig. 9 Elbow 45° R. H. Black	.....	.03	.04	.05	.07	.10	.14	.21	.33	.50	1.00
Fig. 9 " " " Gal.	.....	.05	.06	.08	.10	.16	.20	.34	.54	...	....
Fig. 84 Elbows Street Black	.....	.04	.04	.05	.08	.10	.16	.22	.36	.60	....
Fig. 84 " " " Gal.	.....	.05	.05	.06	.11	.14	.22	.32	.52	...	....
Fig. 7 Side Outlet Elbows Black	.....	.....	.03	.04	.07	.12	.18	.24	.40	...	....
Fig. 4 Tees Black	.02½	.03	.03	.04½	.06	.10	.12	.18	.24	.42	.68
Fig. 4 " Galv.	.....	.03½	.04	.06½	.08	.15	.20	.28	.40	.76	1.20
Fig. 10 Crosses Blacked	.....	.03	.04	.05	.08	.12	.16	.24	.40	.70	1.20
Fig. 10 " Galv.	.....	.....	.....	.07	.10	.18	.24	.36	.60	1.10	...
Fig. 14 Reducers Black	.....	.01	.01	.02	.04	.06	.08	.11	.18	.28	.40
Fig. 14 " Galv.	.....	.....	.....	.03	.06	.10	.14	.18	.30	.42	.66
Fig. 16 Caps Black	.....	.01	.01½	.02	.03	.05	.06	.10	.12	.18	.34
Fig. 16 " Galv.	.....	.01½	.02	.03	.05	.07	.10	.15	.20	.30	.52
Fig. 17 Return Bends Close Black	.....	.....	.....	.05	.10	.14	.20	.30	.40	...	....
Fig. 17 " " " Galv.	.....	.....	.....	.10	.14	.22	.30	.46	.66	...	....
Fig. 18 Return Bends Open Black	.....	.....	.....	.06	.12	.20	.26	.34	.50	.80	1.20
Fig. 18 " " " Galv	.....	.....	.....	.10	.18	.28	.36	.50	.80	1.40	2.00
Fig. 19 Lock Nuts Black	.....	.01	.01	.01½	.02	.03	.03½	.04½	.07	...	....
Fig. 19 " " Galv.	.....	.01½	.01½	.02	.03	.04	.05½	.08	.12	...	....
Fig. 20 Unions Black	.....	.07	.08	.09	.10	.12	.17	.23	.30	.62	.84
Fig. 20 " Galv.	.....	.10	.12	.13	.16	.20	.28	.36	.46	.95	1.26
Brass Unions, Ground Joint	.....	.....	.....	.....	.....	.30	.35	.45	.55	...	...

RAILING FITTINGS.

MALLEABLE IRON FOR FENCES, ENCLOSING ENGINES AND MACHINERY, EXHIBITION SPACES, ETC.

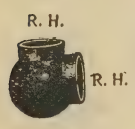


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Malleable Iron Railing Fittings.

PLEASE READ WITH CARE:

To construct a pipe two feet high, the upper outlet of all Fittings used in lower pipes should be tapped with left hand threads, but when orders are sent us without specifying how outlets are to be tapped, all Fittings will invariably be furnished right hand.

As the fittings do not need to be steam or water tight a sufficiently clean thread to screw up well and make a good job can be made by running a left hand top into any outlet tapped right hand.

In ordering these fitting describe number and size.

Prices quoted are for right hand only.

Size Inches	½	¾	1	1¼	1½	2
No. 1 Elbow	$0.12	$0.15	$0.17	$0.30	$0.38	$0.60
No. 2 " Side Outlet	.17	.19	.21	.34	.42	.68
No. 3 Tee	.17	.19	.21	.34	.42	.63
No. 4 Tee Side Outlet	.25	.30	.30	.38	.46	.76
No. 5 Cross	.25	.30	.30	.38	.49	.85
No. 6 Cross Side Outlet	.30	.31	.34	.42	.52	1.46
No. 7 Floor Flange	.12	.13	.13	.17	.23	.25
No. 8 Acorn Ornaments	.13	.15	.17	.21	29	.31

Right and Left and Left Hand 15 per cent extra.

WE HAVE A STOCK OF HITCHING POSTS--ASK ABOUT THEM-

Brass Valves and Fittings

We carry on hand at all times a complete stock of New Brass Valves and Fittings of all kinds. We are alive at all times to opportunities for purchasing complete stocks at SHERIFF'S and RECEIVER'S SALES. Our prices are always the lowest. : :

GLOBE VALVES

No. 1. Solid Brass Globe Valves. Brand New.

Size inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price, each	24c	24c	26c	33c	42c	60c	83c	$1.15	$1.75

ANGLE VALVES

No. 2. Solid Brass Angle Valves. Brand New.

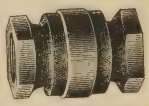
Size inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	24c	24c	26c	33c	42c	60c	83c	$1.15	$1.75

HORIZONTAL CHECK VALVES

No 3. Solid Brass Horizontal Check Valves. Brand New.

Size inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	22c	22c	24c	30c	38c	54c	75c	$1.05	$1.57

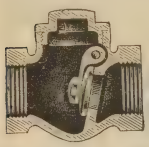
VERTICAL CHECK VALVES



No. 4. Vertical Cheek Valves. Brand New.

Size inches	1/4	1/2	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	24c	24c	26c	34c	41c	59c	83c	$1.15	$1.75

SWING CHECK VALVES



No. 5. Swing Check Valves. Brand New.

Size inches	1/2	3/4	1	1 1/4	1 1/2	2
Price each	55c	65c	85c	$1.00	$1.35	$1.85

GATE VALVES

No. 10. Solid Brass Straight Way Gate Valves. Brand New.

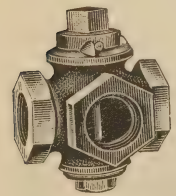
Size inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	40c	40c	42c	54c	75c	$1.00	$1.45	$2.00

STANDARD BRASS STEAM COCKS

No. 32. Brand New. Flat Head.

Size inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	23c	28c	35c	45c	65c	$1.00	$1.30	$2.00

THREE WAY BRASS STEAM COCKS



No. 35. Three Way Brass Steam Cocks. Brand New. Square Head.

Size inches	1/2	3/4	1	1 1/4	1 1/2	2
Price each	70c	95c	$1.05	$1.65	$2.00	$3.00

BRAND NEW JENKINS DISC BRASS VALVES

No. 50. Jenkins' Disc Brass Valves.

Size inches	1/2	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	33c	38c	48c	66c	85c	$1.20	$1.65	$2.65

JENKINS' DISC BRASS VALVES

No. 51. Jenkins' Disc Angle Valves.

Size inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	33c	38c	48c	66c	85c	$1.20	$1.65	$2.65

JENKINS' DISC CHECK VALVES

No. 52. Jenkins' Disc Check Valves.

Size inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Price each	33c	36c	39c	57c	78c	$1.10	$1.50	$2.25

Brand New Leader Injectors.

It has no movable parts in its internal construction, no loose valves, rings or springs to get out of order, and embodies simplicity, durability, neatness of design, great range of work under the various conditions required of injectors, high or low steam, long or short lift, without any adjustment or **change of tubes,** or Globe Valve in Suction Pipe.

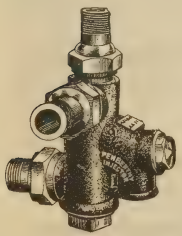
Will lift water from well or stream, heating and forcing into boilers at about 200 degrees temperature, whether engine is running or not. Operated by one lever; will lift water from 1 to 22 feet vertically, horizontal distance not so important when Suction Pipe is air tight.

EVERY INJECTOR TESTED AND FULLY GUARANTEED.

No. of Injector.	Size of Pipes. Steam Pipe.	Size of Pipes. Suction and Feed.	Horse Power of Boiler, Will Feed.	Gallons per hour, 60 lbs. Steam.	Price, each.
1	⅜	⅜	3 to 7	60	$ 4 65
2	⅜	⅜	7 to 10	90	5 25
3	½	½	12 to 18	150	6 30
4	½	½	18 to 25	220	7 25
5	¾	¾	25 to 35	300	8 50
6	¾	¾	35 to 45	400	10 00
7	¾	1	45 to 60	500	11 50
8	¾	1	60 to 70	600	13 00
9	1	1¼	70 to 90	750	16 00
10	1	1¼	100 to 125	1000	18 50
11	1¼	1½	125 to 150	1300	21 00
12	1¼	1½	150 to 200	1800	26 00

The Penberthy Improved Automatic Injector.

SIMPLE.
RELIABLE.



No. 907.

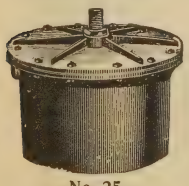
PRICE LIST OF INJECTORS, INCLUDING STRAINERS.

Size.	Price.	Gallons per hour, 65 lbs. Pressure.	Size of Pipe Connection.	Horse Power.
No. OO	$ 4 80	60	⅜	4 to 8
No. A	5 40	120	½	8 to 12
No. AA	6 00	165	½	12 to 16
No. B	7 50	250	¾	16 to 28
No. BB	9 00	340	¾	28 to 40
No. C	12 00	475	1	40 to 57
No. CC	13 50	575	1	57 to 72
No. D	16 50	750	1¼	72 to 93
No. DD	18 00	920	1¼	93 to 120
No. E	22 50	1300	1½	120 to 160
No. EE	27 00	1740	1½	160 to 220
No. F	33 00	2270	2	220 to 290
No. FF	37 50	2800	2	290 to 308

STANDARD STEAM TRAPS.

These traps will eject the water of condensation from a steam system, and permit it to run into the sewer or to a hot well. These are second hand traps, but are guaranteed to work perfectly. We test every one before shipment.

12-in. capacity 700 ft. radiation, price . . . $ 6 00
15-in. " 1100 ft. " " . . . 9 00
18-in. " 2000 ft. " " . . . 13 50



No. 25.

We also have other patterns of steam traps, including

Kieley, Nason, Anderson, etc.

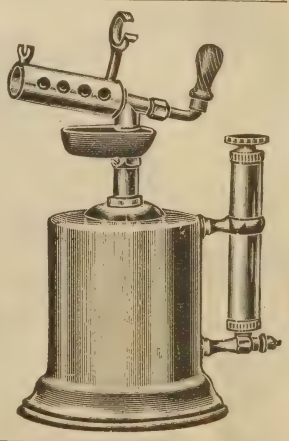
Plumbers' Gasoline Torch.

FOR

Thawing Frozen Water Pipes, Etc., Etc.

Made of extra heavy drawn brass fitted with air pump. The burner is the best.

Price, each . . $2 90

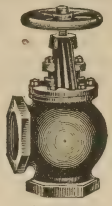


WE HAVE MANY GOOD SECOND HAND STEAM PIPES FOR SALE.

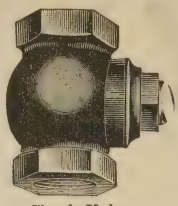
IRON BODY VALVES, BRASS TRIMMED, BRAND NEW

This List of Material is Fully Guaranteed. You Can Purchase with Perfect Confidence

Globe Valves.



Angle Valves.

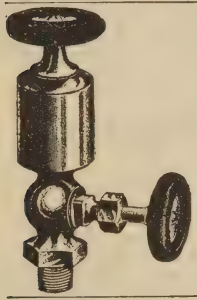


Check Valves.

Gate Valves

The above cuts show screwed valves, but you will note we also list flanged valves.

		2 inch.		2½ inch.		3 inch.		3½ inch.		4 inch.		5 inch.		6 inch.	
		Screwed.	Flange.	Screwed.	Flange.	Screwed.	Flange.	Screwed.	Flange.	Screwed.	Flange.	Screwed.	Flange.	Screwed.	Flange.
No. A20	Globe Val.	$1.75	$2.40	$2.40	$2.95	$3.20	$4.00	$5.00	$5.50	$6.00	$6.70	$8.25	$9.25	$11.25	$12.75
No. A21	Angle Val.	1.75	2.40	2.40	2.95	3.20	4.00	5.00	5.50	6.00	6.70	8.25	9.25	11.25	12.75
No. A22	Check Val.	1.15	1.70	2.15	2.70	2.93	3.75	4.00	5.00	4.60	5.90	7.25	8.00	9.00	11.50
No. A23	Gate Val.	3.25	3.25	3 95	3.95	4.90	3.9[illegible]	5.90	5.90	6.50	6.50	8.00	8.00	9.00	9.00



Brand New Brass Lubricators

No. 29.

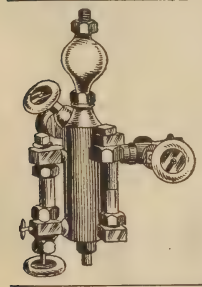
Diam. of Body	Size of Pipe	Price
1 -inch	⅜-inch	$0·60
1¼-inch	⅜-inch	.66
1½-inch	½-inch	.72
1¾-inch	½-inch	.78
2 -inch	½-inch	.87
2½-inch	¾-inch	1.12
3 -inch	¾-inch	1.40

OIL CUPS

No. 36.

Brand New Plain Brass Oil Cups Best Quality

Pipe, size, in...	⅛	¼	¼	⅜	⅜
Diam. of body, in.	¾	1	1¼	1½	2
Price each.....	$0.10	$0.11	$0.18	$0.27	$0.48



Brand New Sight Feed Lubricator

No. 902.

Size.	Diameter of Engine Cylinder.	Price Ea.
½-pint	Up to 8 inches	$2.95
½-pint	8 to 10 inches	3.20
1 -pint	10 to 18 inches	4.25
1 -quart	18 to 30 inches	5.90
2 -quarts	30 and over	8.20

Solid Brass Grease Cups

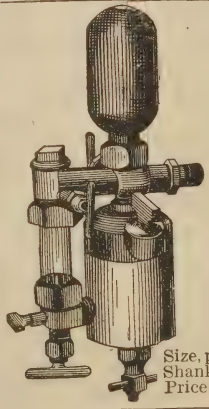
No. 831.

Size.....	00	0	1	2	3	4
Outside diam,, in...	1	1¼	1½	2	2½	3
Pipe thread, in.	⅛	¼	¼	⅜	½	¼
Price each..	$0.12	$0.15	$0.19	$0.25	$0.40	$0.60

Powell's Patent Sight Feed Oil Cups. Cross Bar Sight Feed, with Independent Stop Feed.

No. 904.

Number.....	00	0	1	1½	2	3	4	5	6
Outside diameter of Glass, inches.....	1	1¼	1½	1⅞	2	2¼	2½	3	3½
Height of Glass, inches.....	⅞	1¼	1⅜	1⅝	1⅞	2⅛	2¼	2¾	4
Capacity.....	½oz.	½	3-5oz.	1oz.	2oz.	¼pt.	½pt.	½pt.	1pt.
Size of Shank, pipe thread inches.....	⅛	¼	¼	⅜	⅜	⅜	½	½	½
Price each.....	$0.65	$0.70	$0.75	$0.88	$1.00	$1.10	$1.35	$1.70	$2.25



Brand New "Eagle" Sight Feed Lubricator

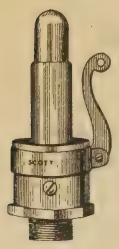
No. 903.

Single Connections.

Size, pts.	¼	½	½	1
Shank, in.	½	½	½	½
Price ea.	$2.00	$2.35	$2.50	$3.65

BRAND NEW POP SAFETY VALVES

All Bronze, Phosphor Bronze Seats



For Locomotives, Fire Engines, Portable and Hoisting Engines. These valves are provided with a lever to operate valve, or blow off all the steam when desired.

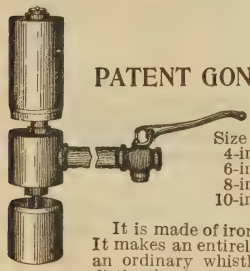
Size	Horse Power	Price each
¾	8	$1.75
1	12	2.10
1¼	18	2.60
1½	20	3.50
2	30	5.25
2½	50	8.00
2½	75	10.00
3	100	11.50

BRASS WHISTLES

With Spring Valves. Brand new. No. 44½ Finest Grade.

Diam. of Bell, ins.	Size of Pipe Connection, Inches.	Price, each.
1	¼	$1.00
1¼	⅜	1.25
1½	½	1.35
2	¾	1.90
2½	¾	2.20
3	1	2.70
3½	1	4.00
4	1¼	5.00
5	1½	6.75
6	2	9.90

PATENT GONG WHISTLES



Prices do not include the valves

Size	Weight
4-inch	35 lbs.
6-inch	75 lbs.
8-inch	140 lbs.
10-inch	260 lbs.

It is made of iron and will last forever. It makes an entirely different sound from an ordinary whistle. It can be heard distinctly six to eight miles.

Diameter of gong...	4 in.	6 in.	8 in.	10 in.
Size of steam inlet..	1¼ in.	1½ in.	2 in.	2½ in.
Price	$7.25	$8.50	$12.00	$18.00

WHISTLE VALVES

BRAND NEW SOLID BRASS

No. 906

Size in.	Price.	Size ins.	Price.
⅜	$0.70	1¼	$1.50
½	.75	1½	1.80
¾	.90	2	2.70
1	1.05	2½	5.40

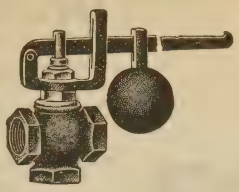
SWINGING CHECK VALVES

IRON BODY

No. 341 Sizes, inches	2½	3	3½	4
Each	$3.75	5.00	6.00	6.75

No. 342. Brand new Crane Iron Body, vertical Check Valves. Size 2½ inch. Price....$2.50

SOLID BRASS SAFETY VALVES



BRAND NEW

No. 11

Size, inches..	½	¾	1	1¼	1½	2
Price, each..	$1.10	1.30	1.40	1.70	2.00	2.70

LUNKENHEIMER VALVES

No. 325. Lunkenheimer's Swinging Check Valves

Size, inches	1	1¼	3
Quantity	14	34	2
Price, each	$1.47	2.12	4.00

No. 326. Lunkenheimer's Handy Gate Valves

Size, inches	½	¾	1	1¼	1½	2	2½
Quantity..	6	2	6	10	13	19	3
Price, ea..	$1.05	1.17	1.63	2.28	3.25	4.81	8.77

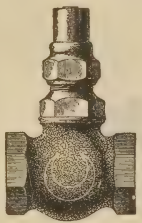
No. 327. Lunkenheimer's Angle Valves

Size, in.	¼	⅜	¾	1	1¼	1½	2
Quantity	7	28	19	20	20	10	5
Price ea.	$0.41	.50	.95	1.30	1.82	2.44	4.01

No. 328. Lunkenheimer's Butterfly Valves—Throttle Butterfly or Vacuum Valves.

	All Brass		Iron Body		
Size, inches...	1¼	1½	2	2½	3
Price, each....	$2.00	2.25	2.40	2.75	3.50

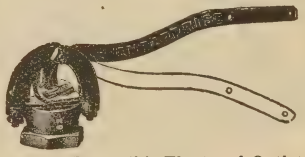
LOCK SHIELD BRASS VALVES



No. 329. Globe and Angle All Brass, Brand New

46	½-inch Angle Valves	each,	$0.40
140	½-inch Globe Valves	"	.40
83	⅜-inch Globe Valves	"	.33
15	½-inch Globe Valves, nickel plated	"	.50

FLOAT VALVES



"Enterprise" Reversible Float and Outlet Valves for automatically controlling the flow of water in reservoir tanks, cisterns, stock tanks, etc. The only positive closing float valve in use. Equally effective under high or low pressure. Valve opens with the flow instead of against it. Will not chatter. Has brass valve seat. Valve will not stick. Is not injured by freezing as all plug valves are. Pressure is resisted by pivot bolt arch instead of the buoyancy of float. By reversing the lever a perfect working outlet valve is obtained.

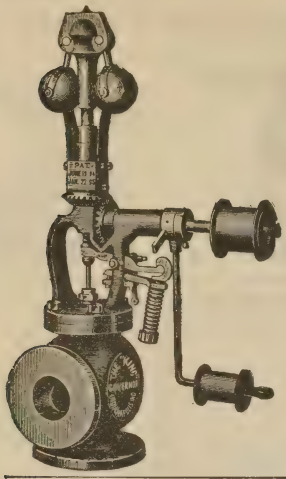
Size, inches	¾	1	1¼
Price, each	.75	.85	$1.00

MARCY WELL VALVES AND PARTS

No. 305. Brand New.

9	2½-inch valves, complete	each,	$1.25
10	2-inch Buckets only	"	.50
65	2-inch Rubbers only	"	.08

Send for our Special Structural Iron List.



Brand New Governors.

We carry a complete stock of these celebrated

KING GOVERNORS.

The most sensitive, the quickest acting and the most durable governor made in the United States.

NEAT IN DESIGN.

First-class in workmanship and material.

It will give the closest possible regulation and the least possible consumption of steam. It is built in a substantial manner and is intended for every-day service, the wearing parts all being made of the best metal. The automatic stop is positive.

NOTE OUR PRICES:

Size of Governor	¾	1	1¼	1½	2	2¼	2½	3	3½	4	4½	5
Diameter of base flange	4½	5	5	5½	7	7	8	9	9	10	11	12
Diameter of side flange	4½	5	5	5½	6½	7	7	8	8	9	9½	10
Height in inches	16½	19	22	24	28	30	32	34½	37	39	42	44
Radius of balls	2⅜	3⅛	3½	3¾	4½	4½	5	5⅜	5¾	5¾	6	6¼
Length of Shaft	6	7½	8¼	9	12	13	14	16	16	16	17	17
Diameter of pulley	1½	1¾	2	2	2½	2½	3	3¼	3¾	3¾	4	4¼
Width of Belt	1	1¼	1¼	1½	2	2	2½	3	3	3	3	3
Center of body to side flange	2½	3¼	3¾	3⅞	5	5¼	5½	6	7	7½	7¾	8⅜
Center of body to base flange	2⅜	3¼	3⅞	4¼	4⅞	5	5¼	5⅜	6⅞	7	7¾	8⅜
Number of revolutions	625	525	475	425	375	350	350	320	290	290	250	220
Price each	$8.50	$9.50	$11.00	$12.50	$15.00	$17.50	$20.00	$25.00	$30.00	$36.00	$41.00	$45.00

FLUE EXPANDERS

Always on hand, brand new "Dudgeon" pattern flue expanders.

Size, Ins.	Price, each	Size, Ins.	Price, each
1½	$1.45	3	$2.45
2	1,45	3½	3.00
2¼	1.70	4	3.75
2½	1.90		

STEAM GAUGES

Lot 1. 4-inch Standard Steam Gauges, brass trimmed, registering 200 lbs. Complete with syphon.
Price each..... **$1.10**

Lot 2. 5-inch, same as above.
Price each..... **$1.20**

WATER GAUGES

Brand New

With brass body, iron wheels and two guards to protect glass tube; prices are for gauges complete, as shown in illustration.
Size connection ⅜ inch, glass ½x10.
Price, each..... **$0.85**
Size connection ½ inch, glass ⅝x12.
Price, each..... **$0.88**

WATER GLASSES

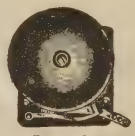
Length	½	⅝	¾
10 inch	5c	5c	6c
11 "	6c	6c	6c
12 "	7c	7c	7c
13 "	7c	7c	8c
14 "	7c	7c	8c

FLUE CLEANERS

All sizes in stock, brand new.

Size, Ins.	Price, each.	Size, Ins.	Price, each
2	$0.40	3	$0.60
2¼	.45	3½	.75
2½	.45	4	.85

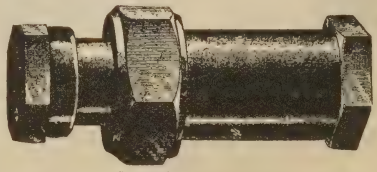
GONG BELLS



Size, ins..	4	5	6	8	10	12
Price, ea..	$1.25	$1.50	$2.00	$2.90	$4.25	$6.75

EXPANSION JOINTS

No. 18



Brand New Brass

Sizes, inches....	½	¾	1	1¼	1½	2
Price, each.....	45c	65c	90c	$1.20	$1.50	$2.50

Second-Hand Valves.

They came from the WORLD'S FAIR, ST. LOUIS.

Our Second-Hand Valves are thoroughly first-class.
The Seats and Discs have been reground and they are perfectly tight

ALL BRASS VALVES.

	½-inch.		¾-inch.		1-inch.		1¼-inch.		1½-inch.		2-inch.	
	Lot No.	Each.	Lot No.	Each.	Lot No.	Each.	Lot No.	Each.	Lot No.	Each	Lot No.	Each.
Globe Valves....	1	$0.22	5	$0.31	9	$0.45	13	$0.60	17	$0.75	21	$1.25
Angle Valves....	2	0.22	6	0.31	10	0.45	14	0.60	18	0.75	22	1.25
Check Valves....	3	0.20	7	0.27	11	0.40	15	0.50	19	0.65	23	1.00
Gate Valves.....	4	0.30	8	0.30	12	0.50	16	0.65	20	1.00	24	1.50

Order by Lot Number.

Iron Body-Brass Trimmed Valves

ALL IN GOOD CONDITION.

You purchase under a guarantee that they will give absolute satisfaction.

GATE VALVES.

Standard weight, suitable for pressures up to 100 pounds. Including Crane's C.C., Chapman, Michigan B. & I Works, Kelley & Jones, Pratt & Cody, Galvin, Kennedy and others.

Lot No.		Threaded. Flanged. Price each.
V25.	2½ inch	$ 3.00
V26.	3 "	3.75
V27.	3½ "	4.50
V28.	4 "	5.00
V29.	4½ "	6.00
V30.	5 "	6.50
V31.	6 "	7.50
V32.	7 "	9.00
V33.	8 "	11.00

MEDIUM AND EXTRA HEAVY GATE VALVES.

V34.	5—4 inch Crane's, C.C., 500, threaded	$ 6.00
V35.	3—4 inch Crane's C.C., 800, flanged	10.00
V36.	1—5 inch Crane's C.C., 800, flanged	13.00
V37.	2—6 inch Crane's, C.C., 800, flanged	16.00
V38.	1—6 inch Crane's, C.C., 800, threaded	16.00
V39.	1—8 inch Crane's C.C., 800, flanged	24.00
V40.	5—10 inch Crane's, C.C., 800, flanged	40.00
V41.	1—12 inch Crane's, C.C., 800, flanged	

SPECIAL GATE VALVES WITH BY-PASS.

V42.	4—8 inch Crane's, C.C., 800, 1½ inch by-pass, flanged	30.00
V43.	1—9 inch Crane's, C.C., 800, 1½ inch by-pass, flanged	40.00
V44.	1—8 inch Eaton, Ex. H., 800, 2½ inch by-pass, flanged	30.00
V45.	1—14 inch Crane's, C.C., 800, 3 inch by-pass, flanged	75.00

INDICATOR GATE VALVES.

V46.	3—3 inch, threaded	$ 5.00
V47.	17—4 M. B. & I. W., threaded	6.00
V48.	5—6 M. B. & I. W., with 4½ and 5 feet extensions	7.50
V49.	6—8 inch	15.00

LARGE SIZED FLANGED GATE VALVES.

V50.	1—10 inch, single disc, Anderson.	$14.00
V51.	2—10 inch, wedge discs, Crane's C.C.	18.00
V52.	6—16 inch, Frontier B. & I. Wks., with 23 inch flanges.	55.00
V53.	1—24 inch wedge discs, non-rising stem	70.00

GLOBE VALVES.

Standard weight, composition disc, Jenkins, Crane, etc.

Lot No.		Threaded. Flanged. Price each.
V54.	2½ inch	$ 2 70
V55.	3 "	3.75
V56	3½ "	4.65
V57.	4 "	5.65
V58.	4½ "	6.75
V59.	5 "	7 75
V60.	6 "	10.50
V61.	7 "	12.50
V62.	8 "	14 00

EXTRA HEAVY GLOBE VALVES.

V63.	15—6 inch, with 6x14 flanges	$15.00
V64.	1—10 inch	40.00
V65.	1—12 inch	75.00

ANGLE VALVES, COMPOSITION DISC, JENKINS, CRANE, ETC.

		Threaded. Flanged.
V66.	2½ inch	$ 2.50
V67.	3 "	3.50
V68.	3½ "	4.00
V69.	4 "	4.50
V70.	4½ "	6.00
V71.	5 "	8.00
V72.	6 "	9.60
V73.	7 "	16.00
V74.	8 "	18.00

CHECK VALVES.

V75.	2½ inch horizontal check, threaded	$ 2.50
V76.	2½ inch horizontal swinging check, threaded	2.50
V77.	3 inch horizontal check, threaded	3.50
V78.	3 inch horizontal swinging check, threaded	3.50
V79.	3½ inch horizontal check, threaded	4.25
V80	3½ inch horizontal swinging check, threaded	4.25
V81.	4 inch horizontal check, threaded	5.00
V82.	4 inch horizontal swinging check, threaded	5.00
V83	5 inch horizontal swinging check, threaded	7.50
V84.	6 inch horizontal swinging check, flanged	8.00
V85.	6 inch horizontal swinging check, threaded	8.00
V86.	8 inch horizontal swinging check, threaded	12.00
V87.	12 inch horizontal swinging check, flanged	22.50

Write for list of flanged fittings and special flanged pipe—sizes up to 24 inch.

Miscellaneous Valves.

Lot No.		Price each.
V88.	1—6 inch vertical, check flanged	$10.00
V89.	1—6 inch extra heavy, C.C., swinging check, flanged	15.00
V90.	2—2½ inch threaded and flanged angle	2.00
V91.	2—3 inch threaded and flanged angle	3.00
V92.	1—3½ inch threaded and flanged angle	3.75
V93.	1—4 inch threaded and flanged angle	4.50
V94.	2 new 3 inch, 3 way cocks	2.00
V95.	1—6 inch, 3 way cocks	9.00
V96.	2—3 inch water gate valves	3.50
V97.	1—4 inch water relief valve, Am. Underwriter Co.	15.00
V98.	1—4 inch hub end gate (Henry)	5.00
V99.	1—7 inch flanged angle, blank flanges	13.50
V100.	1—4 inch electric alarm valve, Neranger Pat.	10.00

BACK PRESSURE VALVES.

V101.	1—2½ inch, threaded	$ 2.60
V102.	3—3 inch, threaded	3.00
V103.	2—4 inch, threaded	4.50
V104.	4½ inch, threaded	5.70
V105.	5 inch, threaded	6.70
V106.	6 inch, threaded	8.60

QUICK OPENING GATE VALVES.

V107.	40—6 inch, flanged, double disc, Scott Valve Co.	$ 8.00
V108.	46—10 inch, flanged, single disc for light pressure, Scott Valve Co.	15.00

TRAPS.

V109.	2 Anderson traps, No. 5, 200 lb. pressure, 1½ in. openings	$25.00
V110.	1 Kieley trap, 8 in. dia., 200 lb. pressure, 1 in. openings	10.00
V111.	1 Cookson trap, No. 4, 1¼ in. openings	18.00
V112.	1 Emergency trap, Wrightman Co., No. 3, 1 in. inlet and 1¼ in. outlet	12.00
V113.	1 Kieley, 200 lb. pressure, 1 in. openings	10.00
V114.	1 Cookson, No. 6, 1½ in. inlet and 2 in. outlet	35.00
V115.	7 No. 6 Cookson steam traps, 2 in. inlet and outlet, by-pass, water glass connection and glass	35.00
V116.	1 No. 3 Morehead steam return trap, 1½ in. connections, capacity 9,000 square feet radiation	75.00
V117.	3 Automatic boiler feeds, 1 in. connections	10.00

For low pressure steam boiler. They are governed by a float and where city water pressure is higher than boiler pressure they will automatically admit water to the water line of the boiler.

V118.	Bundy separator, 8 in. flanged	40.00
V119.	15—12 inch single disc gate valves, flanged for light pressure	17.50

FLANGED GATE VALVES WITH BY-PASS.

Lot No.		Price each.
V120.	1—10 inch, C.C., 500, 2 inch by-pass, tongue and groove flanges	$30.00
V121.	2—10 inch, C.C., 500, 2 inch by-pass, plain flanges	30.00
V122.	2—10 inch, Ex. Hvy. Eaton, 2½ inch, by-pass, tongue and groove flanges	30.00
V123.	1—10 inch, Ex. Hvy., Matterne, 2 inch, by-pass, plain flanges	30.00
V124.	3—10 inch, Ex. Hvy., Chapman, 1½ inch, by-pass, tongue and groove flanges	30.00
V125.	3—12 inch, Ex. Hvy., Crane, 2½ inch, by-pass, pl'n flanges.	40.00
V126.	1—12 inch, Ex. Hvy., Crane, 2½ inch, by-pass, tongue and groove flanges	40.00
V128.	2—14 inch, Ex. Hvy., Eaton, 3 inch, by-pass, tongue and groove flanges	75.00
V129.	4—16 inch, Ex. Hvy., Eaton, 4 inch, by-pass, tongue and groove flanges	90.00
V130.	1—18 inch, Ex. Hvy., Eaton, 4 inch, by-pass, tongue and groove flanges	100.00

GATE VALVES.

V131.	9—8 inch, Ex. Hvy., Chapman, tongue and groove flanges	$30.00
V132.	7—12 inch, Standard Chapman, plain flanges	23.00
V133.	2—12 inch, Standard Mich. B. & I. Wks., plain flanges	23.00
V134.	1—12 inch, Standard Mich. B. & I. Wks., with companion flanges	25.00
V135.	2—10 inch, Standard Mich. B. & I. Wks., threaded indicator.	20.00

QUICK OPENING GATE VALVES, FLANGED.

V136.	20—12 inch, Scott single disc, tapped 1½ inch on bonnet	$15.00
V137.	4—12 inch, Eddy single disc, with companion flanges	17.50

HUB GATE VALVES, FOR CAST IRON WATER PIPE.

Manufactured by Rensselaer Co., Troy, N. Y.

V138.	20—4 inch	$ 4.00
V139.	4—6 inch	6.00
V140.	3—8 inch	10.00
V141.	1—10 inch	16.00
V142.	4—12 inch	22.50
V143.	1—24 inch	120.00

All second-hand valves offered subject to prior sale.

Plumbing Material Direct

TO YOU AT

WHOLESALE PRICES.

Hundreds of thousands of dollars worth of this class of material passes through our hands every year. We are constantly buying up enormous job lots of Plumbing Material of every descriptions from Sheriffs', Receivers', Manufacturers' and Forced Sales, and we are always in position to quote you record breaking prices.

We operate with immense capital and by guaranteeing our enormous contracts, we can buy at very close figures. Furthermore we buy anything at a price and pay ready cash for everything. This is our position and we want to give as many as we possibly can the benefit of it. We do not allow anyone to dictate to us as to whom we will sell our Plumbing Material.

For years, consumers have been forced to pay exorbitant prices for everything in the plumbing line, because the plumbing trade is controlled by Associations and Combines. We are in position to sell this material direct to you for prices that are even below what your plumber could buy them for at wholesale.

The material we are offering is just as good as any manufactured. The regular Bath Room outfits which we are offering in these pages are all guaranteed strictly first-class and perfect in every way, except where otherwise mentioned.

We can save anywhere from fifty to two hundred dollars on your plumbing job by selecting your fixtures from these pages, and looking after the installation of the material yourself.

We Issue A Complete Instruction Book Free

For The Benefit Of Our Customers.

This instruction book covers every practical phase of plumbing, and also contains much interesting information with reference to heating plants, etc. We furnish one of these books on every order for complete Plumbers' Outfit which we sell. In addition to this we prepare special instructions and blue print plans for each individual case.

IT IS ABSOLUTELY IMPOSSIBLE FOR YOU TO GO WRONG.

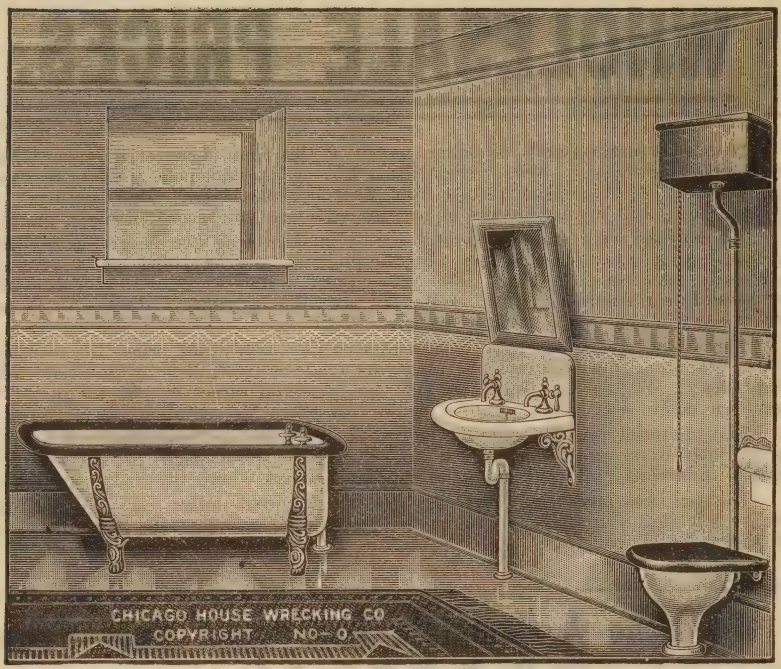
YOU CAN INSTALL IT YOURSELF.

We do not jealously hoard our information—we cannot tell you too much. When you place an order with us for a Plumbers' Outfit, you are at liberty to correspond with us in regard to any difficult points in the installation of the outfit, and your inquiry will have the prompt and careful attention of our plumbing experts, who will be more than pleased to give you every possible advice.

WE LOAN YOU THE TOOLS FREE OF CHARGE.

BATH ROOM COMBINATION No. 0.

PRICE $25.00



THE BATH TUB. Modern and graceful in shape, made of heavy steel, white enameled on the inside and painted on the outside, and is finished with a polished hardwood rim with decorated cast iron legs. Length of tub is 5 feet.

The fittings consist of the following:

Nickel-plated, connected waste and overflow nickel-plated, double compression bath cock with tail pieces for iron or lead pipe (in ordering specify which); chain and rubber stopper.

THE LAVATORY. One piece, cast iron, roll rim, white porcelain enameled lavatory, nicely finished on the outside. It is for straight wall, and is all cast in one piece. It is absolutely sanitary. It is fitted with two nickel-plated compression basin cocks, nickel-plated "S" trap with waste to the floor, nickel-plated chain and rubber stopper; floor flanges and fancy brackets.

THE CLOSET is a sanitary Vitreous bowl, complete with a polished hardwood oak seat and copper lined oak tank, fitted with ball cock, syphon, chain, pull, etc. with nickel-plated flush pipe.

QUALITY The material of this outfit is all new. The bath tub is strictly perfect. Every fitting used on this outfit is perfect.

The closet bowl and lavatory slab are Class "B," but the defects are so slight that they will not impair the usefulness or appearance to any extent.

Price for this outfit $25.00

NOTE. We will furnish this bath tub in 4½ foot length at a deduction of 35 cents.

If 5½ foot tub is wanted, add..... $0.60

If 6 foot tub is wanted, add..... 1.60

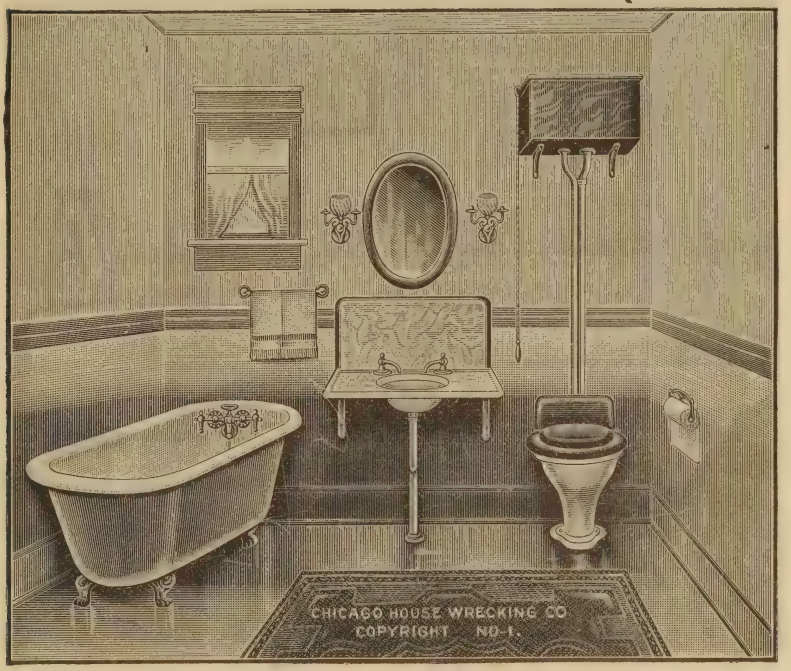
Will furnish nickel-plated supply pipes for this bath tub at an additional price of..... 1.50

The Lavatory we will furnish with trap to wall instead of to floor at the same price.

We will furnish nickel plated supply pipes for lavatory at an additional price of..... 1.50

This is a Good Outfit at a Low Price.

BATH ROOM COMBINATION No. 1.



THE BATH TUB is cast iron; has a heavy 3-inch roll rim; is made in one piece, is white porcelain enameled on the inside and over the roll rim; is finished on the outside with a single coat of Iron Filler Paint.

The fittings are heavy brass nickel-plated, consisting of nickel-plated waste plug and overflow; nickel-plated Fuller double bath cock for hot and cold water; nickel-plated chain and rubber stopper; floor flanges, etc. Tub is 4½ foot in length and 30 inches in width.

THE LAVATORY is pink Tennessee marble for straight wall, complete with back and Patent overflow bowl; nickel-plated compression basin cocks; nickel-plated "S" trap from basin to floor; floor flanges; basin clamps; nickel-plated twisted brackets; chain and rubber stopper.

THE CLOSET is a vitreous porcelain washout bowl, with hardwood seat for attachment against the wall; Tank is copper lined and furnished in either Natural, Golden or Antique Oak or Cherry, (In ordering state your preference), fitted with latest appliances and complete in every way, including chain and pull; nickel-plated flush and supply pipes, the flush pipe being connected to the bowl with a patent rubber elbow, includes floor screws, floor flanges, etc.

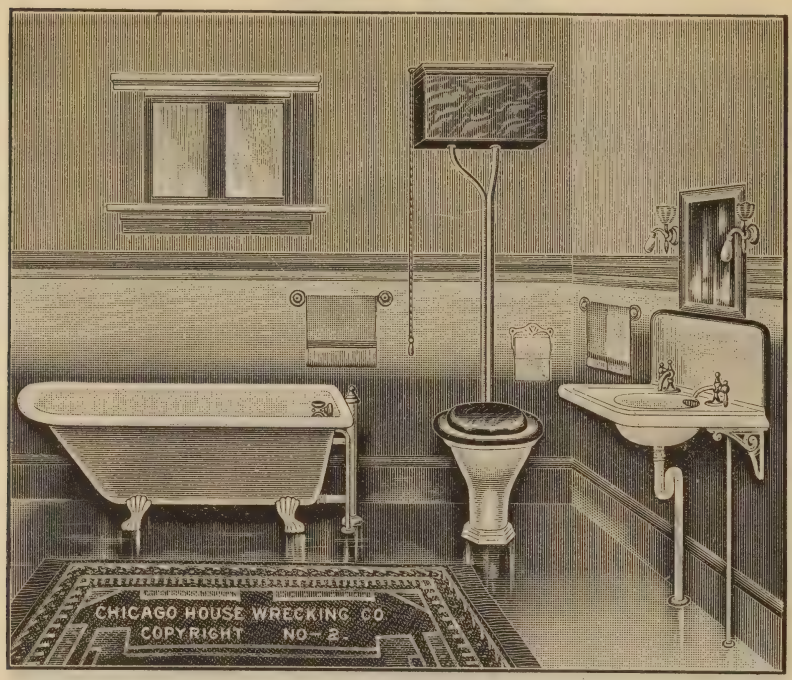
QUALITY. The outfit consists of all new material. The tub is Class "B." The defects are very slight, scarcely noticeable and do not mar the appearance or usefulness of the tub.

Price as described.....$37.50.

NOTE. If 4 foot bath tub is wanted. Same price.
If 5 foot bath tub is wanted, add..... 1.50.
If 5½ foot bath tub is wanted, add..... 3.00.
If 6 foot bath tub is wanted, add..... 4.50.

The bath tub can be furnished with nickel-plated connected waste and overflow instead of common waste and overflow at an additional charge of.....$1.25

BATHROOM COMBINATION No. 2.



THE BATH TUB is a graceful cast iron tub; has a heavy 3-inch roll rim; is made in one piece; is white porcelain enameled on the inside and over the roll rim; finished on the outside with a single coat of iron filler paint.

The fittings are heavy brass nickel-plated, consisting of nickel-plated double Fuller bath cock for hot and cold water; nickel-plated connected waste and overflow; nickel-plated supply pipes; chain and rubber stopper; floor flanges, etc. Tub is 5 feet in length and 30 inches in width.

THE LAVATORY is cast iron counter sunk rolled edge, white porcelain enameled; size of slab 18x24 inches; has 11x15-inch patent overflow oval bowl with 8-inch back; is cast seamless in one piece; is fitted with fancy brackets; and complete with nickel-plated Fuller basin cocks for hot and cold water; nickel-plated "S" trap from basin to floor; nickel-plated supply pipes to floor; nickel-plated overflow strainer; chain stay; chain and rubber stopper.

THE CLOSET is a vitreous porcelain washout bowl; with hardwood seat attached directly to the bowl with nickel-plated bolt attachment; tank is copper lined and furnished either in natural, golden, antique oak or cherry (in ordering, state your preference), and is fitted with latest appliances and complete in every way, including chain and pull; is furnished with nickel-plated flush and supply pipes, the flush pipe being connected to the bowl with a patent rubber elbow. The outfit includes floor screws, floor flanges, etc.

QUALITY. The outfit consists of all new material. The tub is Class "B." The defects are very slight, scarcely noticeable, and do not mar the appearance or usefulness of the tub.
Price as described.....**$44.00**

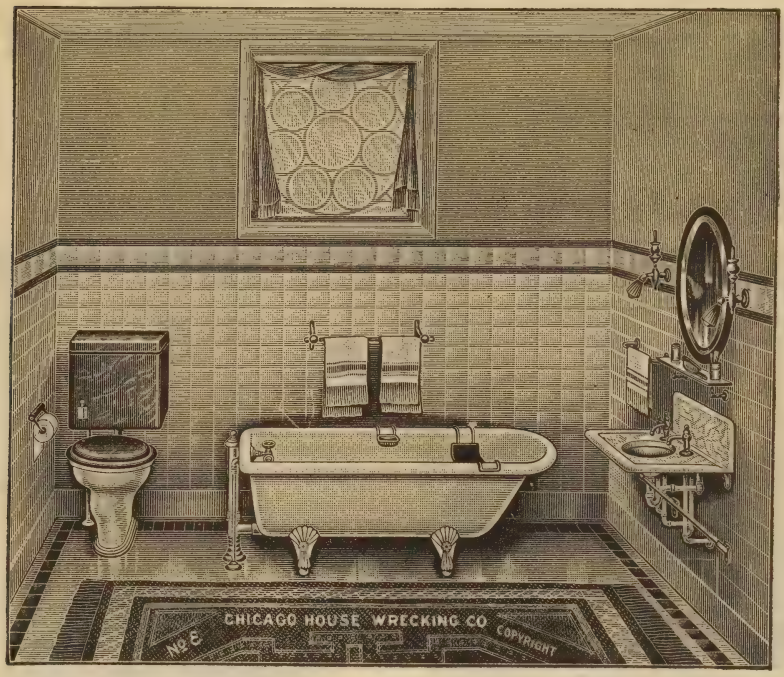
NOTE. The outfit with closet bowl changed from the washout pattern specified above to syphon wash-down bowl will cost extra.....$1.00

We can also furnish this Lavatory with fittings to wall instead of to floor at the same price. We will furnish Lavatory for corner of room instead of straight wall as described at the same price.

If 4 or 4½-foot Bath Tub is wanted, deduct.....**$1.50**
If 5½-foot Bath Tub is wanted, add.....**1.50**
If 6-foot Bath Tub is wanted, add.....**3.00**

We can furnish this Bath Tub with combined nickel-plated brass waste and overflow and bath trap to go above the floor at an additional price of.....**$2.50**

Combination No. 3, $55.00



Combination No. 3.

THE BATH TUB.—Cast iron, white porcelain enameled, with heavy 3-inch roll rim. Tub is 5 feet in length, 30 inches in width, graceful in shape. A very comfortable tub. It is fitted with a double nickel plated combination bath cock for hot and cold water, nickel plated supply pipes, standing "Roman" waste, nickel plated, with latest appliances. The feet are artistic in design.

THE CLOSET consists of a latest improved syphon wash-down bowl, made of vitreous porcelain ware. It has seat and cover attached directly to the bowl, with nickel plated clamps and fittings. The tank is of the low-down pattern, round-cornered, copper lined, with best grade ball cock and improved push-button action flushing device, with nickel plated supply pipe and flush connection, with floor flange and rubber gasket.

THE LAVATORY is a countersunk, genuine Italian marble, with a solid porcelain 14x17 oval basin, with nickel plated brass rope pattern brackets, N. P. Fuller basin cocks, N. P. brass supply pipes with air chambers, N. P. brass trap (both trap and supply pipes to the wall), N. P. chain and rubber stopper, complete with clamps, screws and nickel plated flanges.
Price for the above complete, as described, all guaranteed to be brand new..... **$55.00**

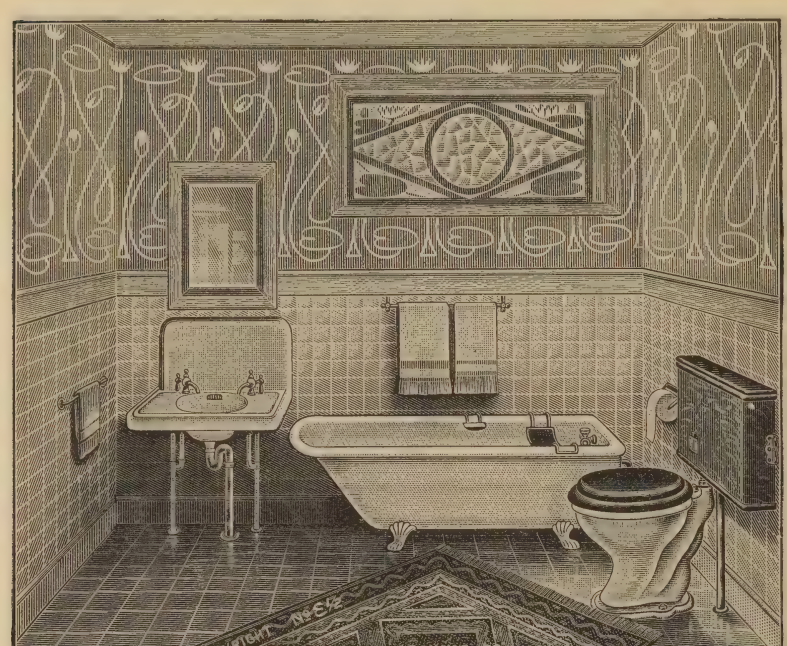
You will also note in this illustration various trimmings that we are showing with this outfit, which we quote as follows:

Nickel plated Toilet Paper Holder for holding paper on rolls. Price	.75
Hard finish Oak Seat with nickel plated adjustable clamps, rubber bound, for hanging over edge of bath tub. Price	1.00
A handsome nickel plated brass Soap Cup, for hanging over the rim of the tub. Price	1.00
Nickel plated brass Towel Bar for bath tub, ½ inch diameter, 30 inches long, with two nickel plated brass posts, holding same 3 inches from the wall. Price	1.00
A second nickel plated brass Bar, 24 inches long, like the above, for the lavatory. Price	.90
Plate Glass Shelf, 24x5 inches, with nickel plated brass brackets. Price	4.00
Total	$63.65

Our Special Price for Everything Listed, $62.00

If 4 or 4½ foot tub is wanted, deduct	$1.50
If 5½ foot tub is wanted, add	1.50
If 6 foot tub is wanted, add	3.00

BATH ROOM COMBINATION No. 3½



COMBINATION NO. 3½.

THE BATH TUB.—Cast iron, 3-inch roll rim, white porcelain enameled. The tub is 5 feet in length. White porcelain enamel is on the inside and over the roll rim. It is a graceful and comfortable tub, and is fitted with nickel plated double combination Fuller bath cock for hot and cold water, nickel plated supply pipes, nickel plated connected waste and overflow, with chain and rubber stopper.
The feet are of artistic design.

THE CLOSET is of the latest improved Syphon Jet pattern, made of absolutely non-absorbent vitreous china. The Syphon Jet Bowl is the most perfect type closet bowl on the market, holding a very deep water seal, making absolute security against sewer gas. The seat and cover attach directly to the bowl with nickel plated post hinges. The tank is of polished oak and lined with heavy copper; it has the best flushing device and nickel plated push button action.
The tank is arranged with a refilling arrangement, so that even though the bowl syphons out and should lose its water seal in flushing, when the tank is refilled a portion of water will overflow and fill up the bowl to the full level of the water seal again.
The tank has a nickel plated supply pipe with floor flanges and nickel plated 2-inch flush connection, closet floor screws and tank fastener.

THE LAVATORY consists of a cast iron countersunk lavatory with back and basin cast in one piece, and all heavily enameled with white porcelain. The basin is oval, 11x15 in size, with patent overflow. The lavatory has brackets, nickel plated air chamber supply pipes and nickel plated Fuller basin cocks and a nickel plated "S" trap with a waste to the floor, nickel plated floor flanges, nickel plated chain and rubber stopper.

NOTE.—We will furnish the lavatory supply pipes and trap to the wall when so specified without additional charge.

Price of the above combination, complete, as described, all guaranteed brand new..... **$50.00**

You will also note on the illustrations various nickel plated trimmings which we quote as follows:

Nickel plated Toilet Paper Holder, for holding paper on rolls..... **$0.75**

Hard finish Oak Seat with nickel plated adjustable clamps, rubber bound for hanging over edge of bath tub..... **$1.00**

A handsome nickel plated brass Soap Cup, for hanging over the rim of the tub..... **$1.00**

Nickel plated Brass Towel Bar for bath tub, ½-inch diameter, 30 inches long, with 2 nickel plated brass posts holding same 3 inches from the wall..... **$1.00**

A second nickel plated brass Bar, 24 inches long, like the above, for the lavatory..... **$0.90**

Special price for the above extra nickel plated trimmings..... **$4.00**

Making the complete outfit as shown in the illustration and as listed above..... **$54.00**

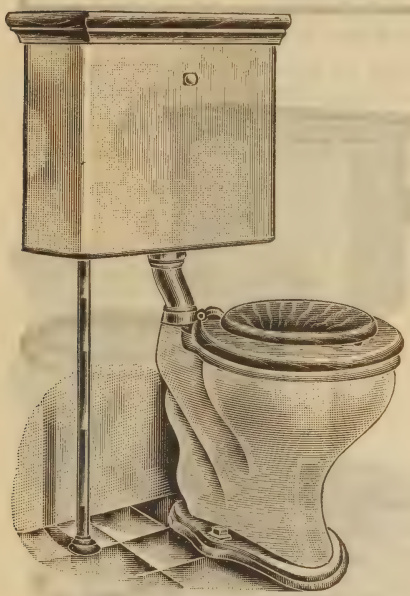
If a 4 or 4½-foot tub is wanted, deduct $1.50; if a 5½-foot tub is wanted, add $1.50; if a 6-foot tub is wanted, add $3.00.

Enameled Iron Closet Tanks!

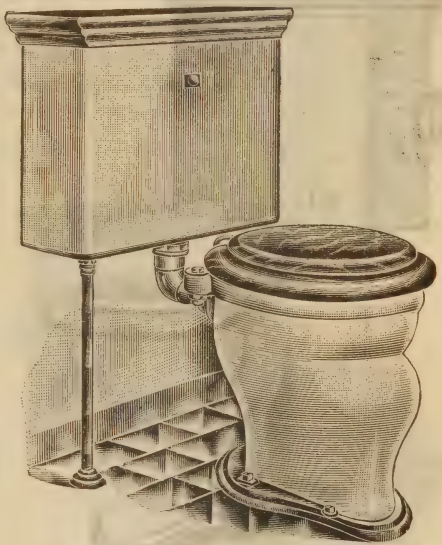
Something New. A Radical Departure From Old Ideas.

NO MORE LEAKY TANKS. **NO MORE WARPED WOODWORK.**

These Tanks are made of Iron and are White Enameled Both Inside and Outside.



SYPHON JET OUTFIT, $13.50



SYPHON WASH DOWN OUTFIT $11.00

Light, compact, easily set up. Impossible for leaks to develop, Simplest Flushing Mechanism with fewest working parts of any tank on the market. Cannot get out of order.

Presents an elegant appearance. Looks like solid porcelain. Imitation Mahogany finish wood cover. Without any question the best tank to be had on the market at any price.

The seat is furnished with cover and fitted direct to bowl with Nickel Plated hinges.

We can furnish these outfits with any kind of bowl Syphon Washdown, Syphon Jet, etc

Note our prices.

No. 251 A.—Syphon Jet Outfit, same as our No. 51, except that we substitute this tank. Price..... **$13.50**

No. 255 A.—Syphon Washdown, same as our No. 55, with this tank substituted. Price..... **$11.00**

Chicago House Wrecking Co., Chicago, Ill. Citronelle, Ala.

Gentlemen:—I received the Bath Room Fittings a few days ago and am highly pleased with the character of the goods.

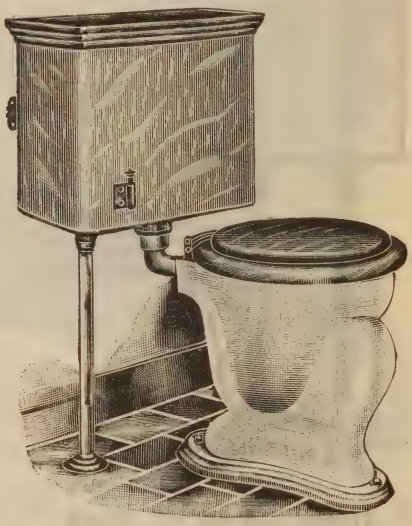
The plumbing fixtures and trimmings have been entirely satisfactory to me and I will certainly recommend you to anyone here wishing to buy such articles from away. Yours truly,

E. H. Herbel, Architect.

SYPHON JET LOW DOWN CLOSETS

Each outfit complete as follows: Porcelain bowl, round cornered; polished hard wood low down, copper lined and nickel plated clamps, polished hard wood seat and cover attached to earthenware with fine nickel plated brass seat attachments, fine nickel plated flush connection and supply pipe, with floor plate, couplings, etc., nickel plated push button action. The whole outfit complete and ready to connect. Strictly high grade.

No. 51.



No. 73.

No. 51 Combination

Consists of outfit complete as above, and plain syphon jet bowl.

Price, each.....$17.00

No. 51 1-2 Combination

Same as the above, except bowl is second grade. The defects are very slight.

Price, complete combination.....$13.00

No. 73 Combination

Consists of outfit as above and plain syphon jet washdown bowl.

Price.....$15.00

No. 73 1-2 Combination

Same as above, except bowl is second grade. The defects are very slight.

Price complete combination.....$12.00

Embossed Bowls, 75c Extra.

All Kinds of Doors and Sash from St. Louis Exposition

Low Down Closets

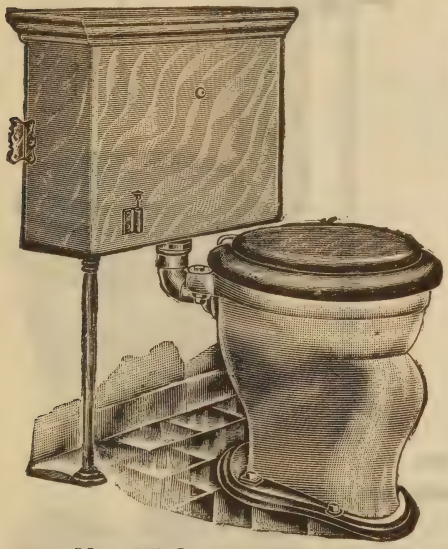
Each Outfit complete as follows: Vitreous Porcelain Syphon Washdown Closet Bowl, round cornered, polished, hardwood tank copper lined, with nickel plated "push button" action, polished hardwood seat and cover attached to the bowl, with nickel plated post hinges, nickel plated elbow flush connection, nickel plated supply pipe to the floor plate, nickel plated floor screws, etc. The whole outfit complete and ready to connect.

These Washdown Outfits that we are offering at $13.00, Style No. 55, are absolutely the most perfect and sanitary syphon closet on the market. We guarantee them in every way. They are brand new, strictly first class and perfect. Our low price gives you an opportunity to save anywhere from $5.00 to $10.00 on the purchase of one.

The closet bowl is made of the very highest grade semi-vitreous porcelain. They are hard as flint, and have perfectly glazed surface, both outside and inside.

The tank and seat are made of hardwood thoroughly seasoned. The tank is lined with heavy copper and is complete with high pressure ball cock.

These outfits are made to last. You can buy with confidence, knowing that you are getting a superior article.



No. 55 Combination.

No. 56 Combination.

No. 55 Combination consists of outfit as above and Syphon Washdown Bowls. Price.....$13.00

No. 55½ Combination. Same as above, only the bowl is second grade. The defects are very slight. Price complete combination.....$10.00

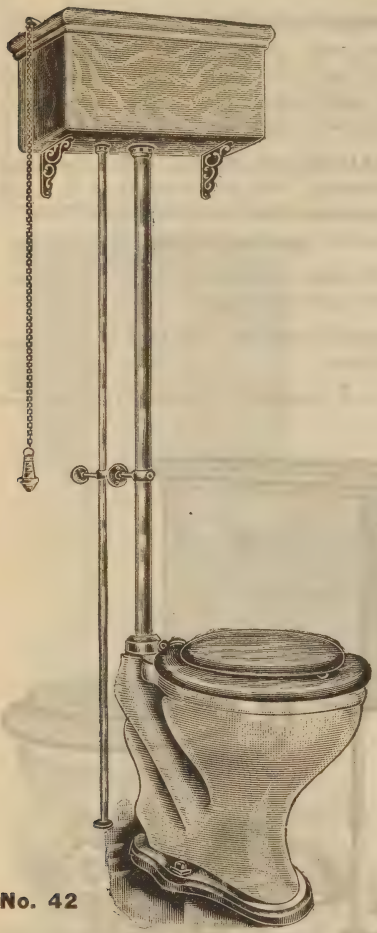
No. 56 Combination consists of outfit as above and Embossed Washdown Bowl. Price.....$13.50

No. 56½ Combination. Same as above, only the bowl is second grade. The defects are very slight. Price complete combination.....$10.50

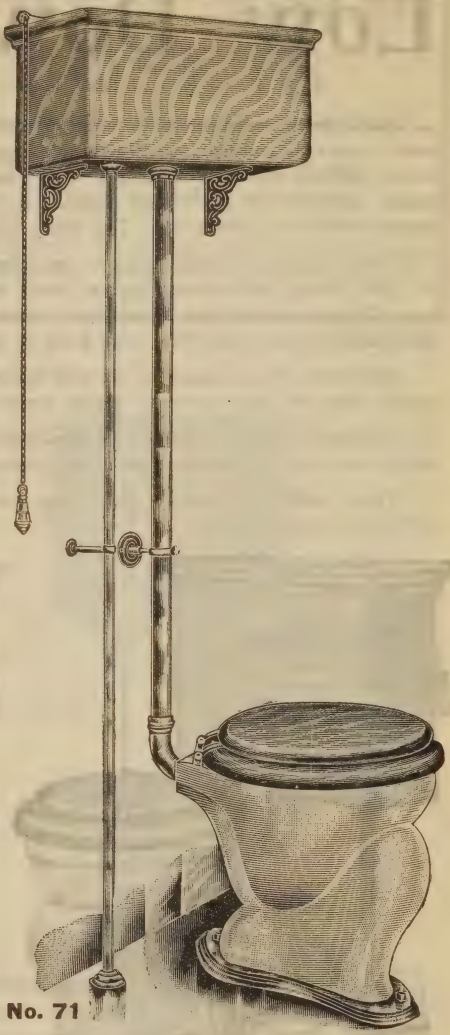
Marble Floor Tile and Marble Wainscoting, Prices Quoted on Application.

CLOSET COMBINATIONS

SYPHON JET CLOSETS



No. 42



No. 71

No. 42 COMBINATION

Consists of Plain Syphon Jet Closet Bowel, with round cornered polished oak tank, with brackets; polished oak seat attached to bowl with nickel plated seat attachment; fine nickel plated flush and supply pipes; slip joint connection on flush pipe, and nickel plated chain and pull, seat bumper, floor screw, etc. **Strictly High Grade Outfit.**

Price as described ***$17.00***

No. 42 1-2 COMBINATION

Same as above outfit, except that the bowl is second grade, with very slight defects.

Price, complete combination ***$13.00***

No. 71 COMBINATION

Consists of plain Semi-Vitreous Porcelain Syphon Jet washdown closet bowl, with round cornered polished oak tank, copper lined, with brackets. Polished oak seat, attached directly to bowl, nickel plated flush and supply pipes, and nickel plated slip joint elbow connection, floor screws, chain and pull and rubber bumper.

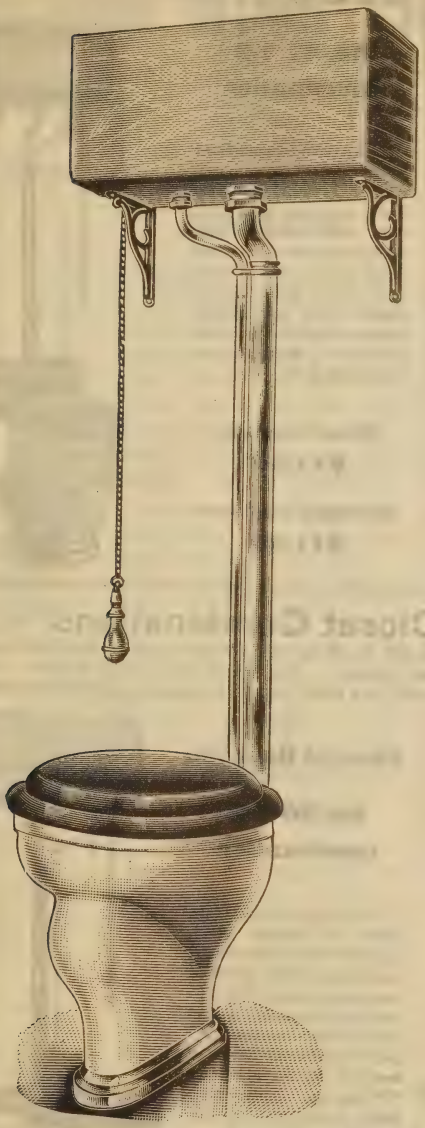
Price, complete ***$14.00***

No. 71 1.2 COMBINATION

Same as above only bowl is second grade. ***Price*** ***$11.00***

If without Flush and Supply Pipes, deduct $2.00. Embossed Bowl 75c Extra

Washdown Closets.

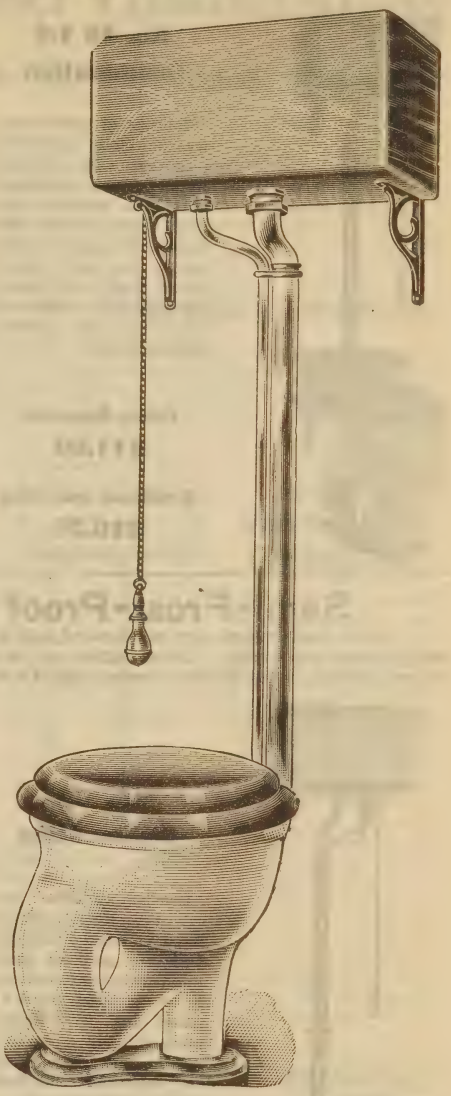


No. 57. COMBINATION.

Consists of Plain Washdown Closet Bowl, with round cornered polished hardwood, oak finished tank, with brackets, polished hardwood oak finished seat attached to bowl with nickel plated seat attachment, fine nickel plated flush and supply pipes, slip joint connection on flush pipe and nickel plated chain and pull.

Price, as described.....$12.00

Washout Closets.



No. 46. COMBINATION.

Consists of plain Front Washout Closet Bowl, with round cornered polished hardwood, oak finished tank, with brackets, polished hardwood oak finished seat attached to bowl, with nickel plated seat attachment, fine nickel plated flush and supply pipe, slip joint connection on flush pipe, and nickel plated chain and pull.

Price, as described.....$11.75

No. 47. Same as above only bowl is embossed. **Price.....$12.25**

If without Flush and Supply Pipes Deduct $2.00

WASHOUT CLOSETS

No. 46 1-2
Combination

Consists of plain front washout closet bowl with trap vent; with copper lined, polished hardwood tank with brackets; polished hardwood seat with back and brackets to fasten to the wall. Nickel plated flush and supply pipes slip joint elbow connection, floor screws, chain and pull.

Price, Complete
$11.00

If without vent trap
$10.75

No. 47 1-2
Combination

Consists of embossed front washout closet bowl, with trap vent; copper lined, polished hardwood tank with brackets; polished hardwood seat with back and brackets to fasten to the wall. Nickel plated flush and supply pipes, slip joint elbow connection, floor screws chain and pull.

Price Complete
$11.50

If without trap vent
$11.00

Semi-Frost-Proof Closet Combinations

Many bath rooms are not heated, and a closet bowl having a water seal in the bowl itself would freeze and burst. These outfits are for such rooms. The water seal, being in a lea trap below the floor, is not liable to freeze, and if it should, the lead trap will expand and will not burst.

No. 50
Combination

Consists of offset porcelain closet bowl; copper lined polished hardwood tank and polished hardwood seat to attach directly to the bowl, nickel plated flush and supply pipes, slip joint elbow connection, and a 4-inch lead "P" trap with ferrule, floor screws, chain and pull.

Price Complete
$12.00

Special Bargain.

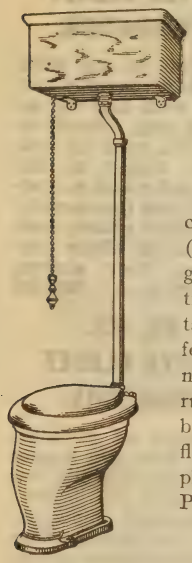
No. 50 1-2
Combination

Consists of porcelain flush rim hopper bowl, copper lined polished hardwood tank, polished hardwood seat attached to wall with brackets, nickel plated flush and supply pipes, slip joint elbow connection, and a 4-inch iron "P" trap with lead ferrule, floor screws, and nickel plated chain and pull.

Price Complete
$9.00

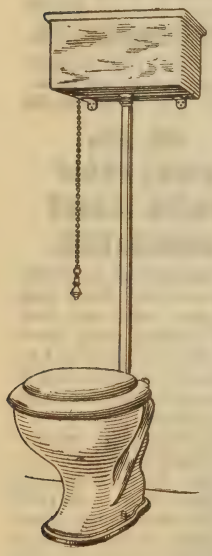
Any of the above without flush and supply, deduct $2.00

Bargain Water Closet Combinations



No. 100. WATER CLOSET COMBINATION

Consists of pedestal, porcelain washout closet bowl (the bowl second grade, but guaranteed in good condition), hardwood seat and tank, oak finish (the seat for attachment to the wall), nickel plated flush pipe with rubber elbow connection, brackets, chain and pull, floor screws, etc.; tank complete with fixtures.
Price, as described....**$9.00**



No. 102. WATER CLOSET COMBINATION

Consists of syphon jet porcelain closet bowl (bowl defective in some way but guaranteed as to action), hardwood seat and tank, oak finish, seat for attaching to the bowl. Nickel plated flush pipe, brackets, chain and pull, floor screws, etc. Tank complete with all trimmings. Top supply unless otherwise specified.
Price, as described..**$9.75**

No. 101. WATER CLOSET COMBINATION

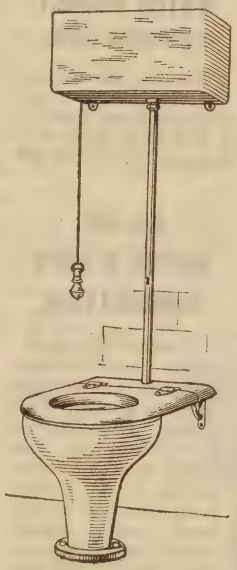
Exactly the same as No. 102, except the seat is attached to the wall instead of to the bowl. Price, as described.....**$9.25**

No. 103. WATER CLOSET COMBINATION

Consists of syphon washdown closet bowl (the bowl defective in some way but guaranteed as to action), with hardwood seat, top supply oak tank, with nickel plated flush pipe and rubber elbow connection, brackets, chain and pull, floor screws, etc. Seat is for attachment to the wall. Price.....**$9.00**

No. 104. WATER CLOSET COMBINATION

Exactly the same as No. 103 combination except the seat instead of attaching to the wall is attached directly to the bowl, bowl having seat lugs for this purpose. Price.....**$9 25**



No. 105. WATER CLOSET COMBINATION

Consists of square combined hopper and trap bowl, with a square seat for attachment to the wall, with a hardwood tank, nickel plated chain and pull, nickel plated flush pipe with rubber elbow connection. The tank is top supply and the bowl is without trap vent. We furnish this complete with brackets, floor screws, etc.
Price.....**$10.00**

If two turned wooden legs are not wanted for this seat deduct 50c net.

No. 106. WATER CLOSET COMBINATION

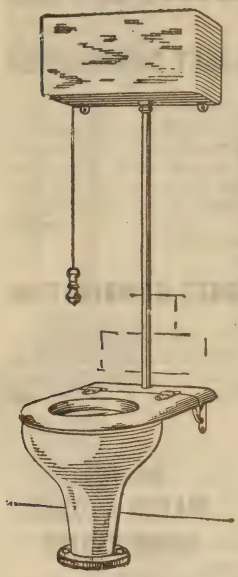
Exactly same as 105 combination, except the bowl has a trap vent. Price.....**$10.25**

No. 107. WATER CLOSET COMBINATION

Consists of a first grade earthenware Philadelphia hopper with hardwood seat for attachment to the wall, and with a hopper cock to connect this closet direct with the city pressure, without tank. Price.....**$4.50**

These Bargain closets are for limited quantities on hand now, and are subject to prior sale.

Bargain Water Closet Combinations.

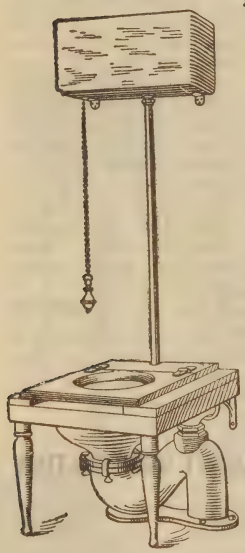


NO. 108. WATER CLOSET COMBINATION.

Consists of a first grade tall, round flush rim earthenware hopper, with a top supply, round cornered oak tank, and seat for attachment to the wall, with nickel plated flush pipe, rubber elbow connection, floor screws, etc. Price.....$7.75

NO. 109. WATER CLOSET COMBINATION.

Exactly the same as 108 combination, except that the bowl is a tall oval flush rim hopper. Price.$10.50



NO. 110. WATER CLOSET COMBINATION.

Consists of a short, round loose hopper and trap bowl (strictly first grade) with gasket and clamps for clamping the bowl and trap together, with a square seat attached to the wall, with neatly turned wooden legs, and with round cornered oak tank (top supply), nickel plated flush pipe and rubber elbow connection. Price...$9.50

NO. 111. WATER CLOSET COMBINATION.

Consists of a short, oval loose hopper and trap bowl (first grade), with gasket and clamps, same as above, the rest of the trimmings exactly as 110 combination. See Cut of No. 110 combination. Price.....$10.00

NO. 112. WATER CLOSET COMBINATION.

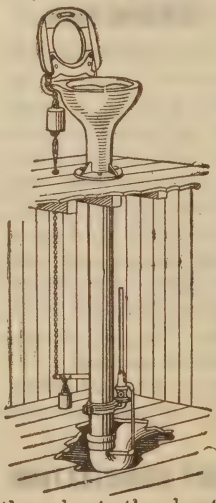
Consists of an offset closet bowl, strictly first grade, with lugs for attaching seat directly to the bowl, with an oak seat to attach to the bowl, and round cornered oak tank (top supply) with nickel plated flush pipe, rubber elbow connection, floor screws, etc. Price.....$10.00

NO. 113. WATER CLOSET COMBINATION.

Consists of a tall, round, flush rim hopper bowl (second grade, but guaranteed as to action), the seat for attachment to the wall, elbow connection, floor screws, etc., no tank or flush pipe. This can be connected direct to city water supply or to the supply from house tank. Price..... $3.50

NO. 114. WATER CLOSET COMBINATION.

Consists of a tall, oval, flush rim hopper bowl (second grade but guaranteed as to action), otherwise same as No. 113. Price.$4.00



NO. 115. FROST PROOF WATER CLOSET COMBINATION.

Consists of a vitreous earthen, flush rim hopper, with an oak self raising seat, frost proof valve, iron rod to open valve when seat is down, 5 ft. length of cast iron waste pipe, ½ "S" cast iron trap tapped for drain pipe from the valve. Price, complete as described....$11.00

The drain pipe from the trap to the valve is not included in the above price. Nor is the lead supply pipe from the valve to the closet bowl included in this. We will furnish complete all iron pipe threads at, extra,.....$1.50

For bottom supply tank and an iron supply pipe, for our bargain combinations, add Net.....$0.50
For nickel plated supply pipe add Net..... 1.00

CLOSET RANGES.

For Factories, Schools, Etc.

No. S. H. 125.

OUR SYPHON EDUCTION CLOSET RANGE consists of a rebuilt Wolff automatic flush tank of 20 or 30 gallons capacity, depending on size of range. These are high grade tanks, lined with extra heavy tinned copper, very substantial. The flushing device is the best.

They are made up of new short porcelain flush rim hoppers with the necessary soil pipe and soil pipe fittings, clamps, flush connections, flush pipe, traps, etc., with plain square seats, with hinges and turned wooden legs, to make up as shown in illustration above, with the necessary caulking lead and oakum for making up all the joints.

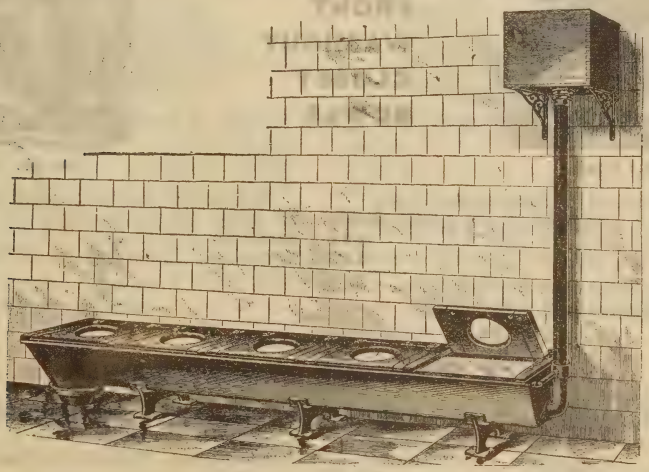
Price, five seat range as shown, everything complete, first class shape **$50.00**
Add or substract per section **6.00**

THE FLUSH TANK on these closets can be regulated so that the flush occurs at intervals of every five minutes to an hour.

The outfits are so made that part of the water would be carried down and flush through the line of soil pipe above the floor, and part of the water would be carried through the 2 inch pipe into the back of the closet, each closet taking the supply from this pipe with a rubber connection, the advantage of a rubber connection being that they would not be likely to feel the jarring in your factory.

Note.—We do not furnish the piece of 2x4 that would be used for a rest to support the seat.

Plain Washout Closet Range,



No. W. R. 6.

OUR PLAIN WASHOUT CLOSET RANGE consists of a painted cast iron washout closet trough rebuilt Wolff's automatic flush tanks, same as in outfit No. S. H. 125, flush pipe and seats, outlet connection, etc. We have these ranges in six, seven and eight seat lengths.

Price, six seat range **$36.00**
Price, seven seat range **42.00**
Price, eight seat range **48.00**

PLUMBERS' SANITARY EARTHENWARE

AN ENORMOUS STOCK ON HAND

Brand new material, never was used. Some people have an erroneous idea that our plumbing material was taken out of buildings that we have dismantled. Such is not the case; all the items we offer are Brand New.

All the following goods come in three grades:

1st grade.—Goods perfect in every way.

2nd grade.—Earthenware Seconds. Goods that have some trifling defect, scarcely noticeable.

3rd grade.—Earthenware Thirds. Goods with some marked defect, but which we absolutely guarantee will not interfere with their usefulness.

URINALS

Brand New, Second Grade Bedfordshire Urinals. We can furnish these with or without fitting.

Price, Urinal only, no fittings.....$2.50

Price, with Urinal Cock and Trap as shown in cut..... 4.50

¼-circle Corner Urinals same price.

WASHOUT CLOSET BOWLS

No. 59. Plain

PRICES ON CLOSET BOWLS DO NOT INCLUDE SEATS

SIZE NO. 3 FRONT WASHOUT CLOSET BOWLS

No. 60. Embossed

No trap vent and for common seat, plain.

1st grade.....each, **$4.25**
2nd grade..... " **3.45**
3rd grade..... " **2.25**

No trap vent and for common seat, embossed.

1st grade.....each, **$4.75**
2nd grade..... " **3.85**
3rd grade..... " **2.25**

If closet bowl, for attached seat, add.....Extra **25c**
If closet bowl, with trap vent, add.....Extra **20c**

BACK WASHOUT CLOSET BOWLS

Much the same as the front washout, except that they wash out to the back instead of to the front.

No. 85. Plain bowls only. No trap vent. Without seat lugs.

1st grade.....each, **$6.50**
2nd grade..... " **4.50**
3rd grade..... " **3.00**

No. 86. Plain bowls with trap vent to right or left hand side. Without seat lugs.

1st grade.....each, **$7.00**
2nd grade..... " **5.00**
3rd grade..... " **3.25**

Bowls with seat lugs, add.....Extra **25c**

Prices are for Bowls without Seats

Syphon Jet Closet Bowls

Syphon Jet Bowls for Seats Attached to Bowl

WITH 1½ INCH THREAD FOR HIGH TANK CLOSET

No. 65, Plain

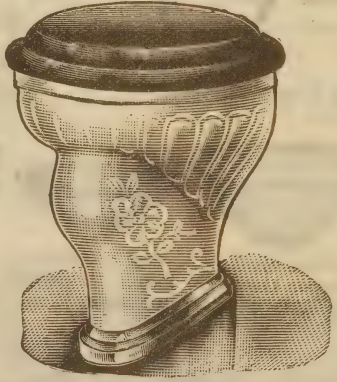
Each, 1st grade	$10.00
Each, 2d grade	7.00
Each, 3d grade	4.25

No. 66, Embossed

Each, 1st grade	$10.50
Each, 2d grade	7.50
Each, 3d grade	4.50

If with 2-inch thread for low tank closet add, extra, 25 cents.

SYPHON WASHDOWN



No. 75, For Seat attached, plain

First grade	each,	$4.50
Second grade	each,	3.55
Third grade	each,	2.00

No. 76, For Seat attached, emb.

First grade	each,	$5.00
Second grade	each,	3.85
Third grade	each,	2.25

SYPHON JET WASHDOWN

Same as shown in combinations Nos. 71 and 72

ALL FOR SEAT ATTACHED

No. 77, Plain

First grade	each,	$5.15
Second grade	each,	4.15
Third grade	each,	3.00

No. 78, Embossed

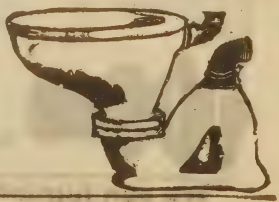
First grade	each,	$5.65
Second grade	each,	4.45
Third grade	each,	3.25

No. 70, LOOSE HOPPER AND TRAP

We have on hand 300 brand new, short oval flush rim hoppers, with loose earthen trap.

First grade	each,	$2.80
Second grade	each,	2.50

(Price includes spuds.)



Prices on These Bowls Do Not Include Seats

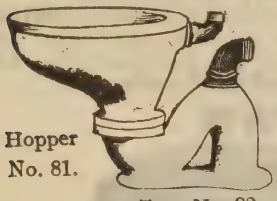
HOPPER CLOSET BOWLS.

Prices Do Not Include Woodwork.

No. 77.
Tall Round Earthen Hoppers
First Grade..... ...$2 65
Second " 2 15

No. 78.
Tall Oval Earthen Hoppers
First Grade..... $3 40
Second " 2 75

No. 79.
Offset Washout Earthen Closet Bowls. First Grade....$3 75
Second " 2 25



Hopper No. 81.

Trap No. 82.

No. 80. Short Round Earthen Hoppers.
First Grade, each.....$1 90
Second Grade, each.....$1 50

No. 81. Short Oval Earthen Hoppers.
First Grade..... ....each, $2 65
Second " ..... " 2 15

No, 82. Loose Earthen Traps.
First Grade, each, $1 65
Second " " 1 25

No. 83. Philadelphia Earthen Hopper.
First Grade, each, $3 25
Second " " 1 80

No. 83.

Cut showing Common Overflow for Metal Plug.

Cut showing Patent Overflow for Metal Plug.

Basin Bowls

Vitreous Porcelain Ware

All Brand New

Cut showing No Overflow for Metal Plug.

Cut showing Patent Overflow for Rubber Plug.

BASINS

				1st Grade	2d Grade
14 inch No Overflow,	Metal	Plug	each,	$0 50	$0 40
14 inch Common "	"	"	"	50	40
14 inch Patent "	"	"	"	65	50
14 inch "	"	Rubber	"	75	60
14 x 17 No "	Metal	"	"	95	75
14 x 17 Common "	"	"	"	1 25	1 00
14 x 17 Patent "	"	"	"	1 50	1 20
14 x 17 "	"	Rubber	"	1 75	1 40
15 x 19 No "	Metal	"	"	1 25	1 00
15 x 19 Common "	"	"	"	2 00	1 00
15 x 19 Patent "	"	"	"	2 00	1 60
15 x 19 "	"	Rubber	"	2 25	1 80
16 x 21 No "	Metal	"	"	1 90	1 50
16 x 22 "	"	"	" "D" shape	3 50	2 80
16 x 21 Patent "	"	"	" straight back	3 50	3 80
15 x 19 "	"	"	" straight back	3 00	2 40

METAL PLUGS

New Metal Plugs, with Rubber Stoppers.....Each, 50c.

We can furnish anything in the plumbing line you may need.

ROLL RIM ENAMELED IRON BATH TUBS

BRAND NEW

This illustrates our high grade, handsome shape, seamless, cast iron, white enameled, Roll Rim Bath Tubs. We buy these tubs under contract and our stock consists of "A" tubs or without defects as well as those known as class "B" or tubs with defects. These "A" tubs have the enamel intact and are guaranteed. The "B" grades are defective only in the enamel. The castings are perfect. These tubs are as carefully made as class "A" tubs, but through some slight imperfection, cannot be classed as a perfect tub, but they will give you just as good satisfaction as strictly perfect tubs. The defects are slight, consisting mainly of some chip off the enamel around the outer edge of the roll rim or a slight craze. We re-enamel these defects so they are not noticeable. These tubs will give you good service. Therefore, in the following styles, we give you your choice of buying an "A" or a "B" Quality.

STYLE No. 30. PRICE FOR TUBS WITHOUT ANY FITTINGS.

	B Grade	A Grade
Length, 4½ feet, price	$12.00	$14.00
Length, 5 feet, price	12.50	15.50
Length, 5½ feet, price	14.00	17.00
Length, 6 feet, price	15.50	18.50

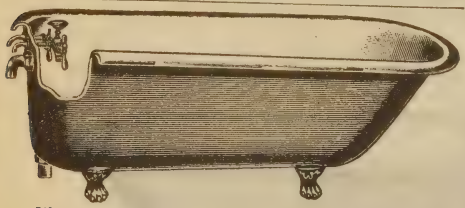


Illustration Shows No. 33 Tub and Trimmings.

No. 32. BATH TUB.

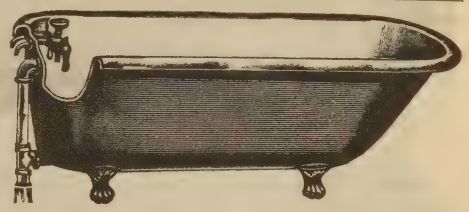
Consists of 3-inch Roll Rim Enameled Tub as above, with N. P. compression double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug.

	B Grade	A Grade
Length, 4½ feet, price	$14.75	$16.75
Length, 5 feet, price	15.25	18.25
Length, 5½ feet, price	16.75	19.75
Length, 6 feet, price	18.25	21.25

No. 33. BATH TUB.

Consists of 3-inch Roll Rim Enameled Tub with trimmings as shown in No. 33, consisting of N. P. No. 4½ Fuller double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug.

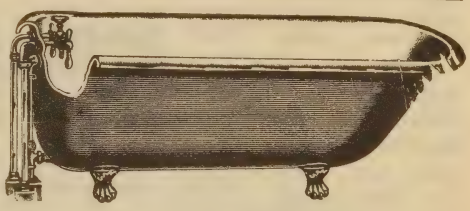
	B Grade	A Grade
Length, 4½ feet, price	$15.00	$17.00
Length, 5 feet, price	15.50	18.50
Length, 5½ feet, price	17.00	20.00
Length, 6 feet, price	18.50	21.50



No. 34 Bath Tub.

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4½ Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain.

	B Grade	A Grade
Length, 4½ feet, price	$16.00	$18.00
Length, 5 feet, price	16.50	19.50
Length, 5½ feet, price	18.00	21.00
Length, 6 feet, price	19.50	22.50



No. 35 Bath Tub.

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4½ Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain and two nickel plated brass supply pipes.

	B Grade	A Grade
Length, 4½ feet, price	$17.25	$19.25
Length, 5 feet, price	17.75	20.75
Length, 5½ feet, price	19.25	22.25
Length, 6 feet, price	20.75	23.75

WHY NOT INSTALL A MODERN HOT WATER OR STEAM HEATING PLANT?

WE CAN FURNISH EVERYTHING NEEDED FOR PLUMBING YOUR HOUSE.

NARROW ROLL RIM BATH TUBS.

NARROW ROLL RIM.

Brand New Cast Iron Tubs, White Porcelain Enameled on the inside and over the rim and painted on the outside. Especially suitable where little space is available.

Dimensions.—Width over rim, 24½ inches, height, 23 inches, width inside, 2½ inches depth, 18½ inches.

Quality.—They are high grade new tubs. Class "B"—that means, not strictly perfect. There is some defect in the enamel which we have repaired in a workmanlike and thorough manner, and the defect is scarcely visible.

DESCRIPTION AND PRICES.

ORDER BY NUMBER.

No. 43 Bare Tub—no fittings.

Length, feet	4 or 4½	5	5½	6
Price, each	$12.00	$12.50	$14.00	$15.50

No. 44 With N. P. Compression, Double Bath Cock, Nickel Plated Overflow Strainer, Nickel Plated Chain, Rubber Stopper and Brass Waste Plug.

Length, feet	4 or 4½	5	5½	6
Price, each	$14.75	$15.25	$16.75	$18.25

No. 45 With N. P. No. 4½ Fuller Double Bath Cock, Nickel Plated Overflow Strainer, Nickel Plated Chain, Rubber Stopper and Brass Waste Plug.

Length, feet	4 or 4½	5	5½	6
Price, each	$15.00	$15.50	$17.00	$18.50

No. 45½ With Nickel Plated No. 4½ Fuller Double Bath Cock, Nickel Plated Connected Waste and Overflow, Rubber Stopper, Nickel Plated Chain.

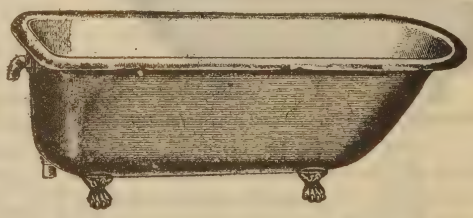
Length, feet	4 or 4½	5	5½	6
Price, each	$16.00	$16 50	$18.00	$19.50

No. 46 With Nickel Plated No. 4½ Fuller Double Bath Cock, Nickel Plated Connected Waste and Overflow. Rubber Stopper Nickel Plated Chain and Two Nickel Plated Brass Supply Pipes.

Length, feet	4 or 4½	5	5½	6
Price, each	$17.25	$17.75	$19.25	$20.75

SPECIAL BATH TUBS WITH SINGLE FAUCETS.

No. 60.

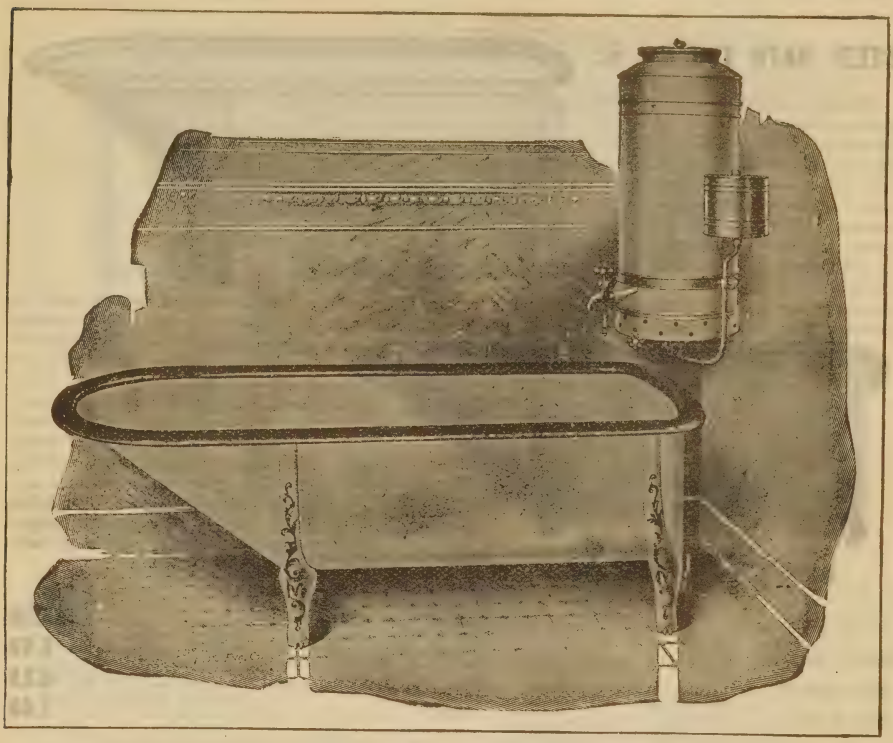


25 roll rim, white porcelain enameled, cast iron bath tubs, with waste opening but no overflow, and with but one faucet hole. They have another opening about six inches from the bottom of the tub, which we will cover with an enamel flasher and gasket to make absolutely water tight. These are very good tubs, some slight defect in the enamel rendering them Class "B." On account of the drilling, we will quote them with waste plug and rubber stopper and single nickel plated faucet for iron pipe connection. F.O.B. cars Chicago.

Price, 4 1-2 feet.....$10.00 **5 feet, each crated.....$11.00**

Price 5 1-2 feet.....$12.00

COMBINATION BATH ROOM OUTFIT.



FIT FOR A KING.

THE CLEVEREST LITTLE COMBINATION ON THE MARKET. Entirely self-contained.

Hot Water always ready just when you want it.

Heats enough water for bath in 10 minutes.

No further expense attached to this outfit, simply set in place, fill the heater with water and it is ready for use. No Plumbing whatever.

No Range Boiler, stove connection or expensive piping system necessary.

Burns Gas, Gasoline or Oil. Portable, light and easily handled.

Just the Outfit for anyone not wishing to go to undue expense to fit up a Bath Room.

The Waste Water can be very easily arranged to run out of doors with a hose connection.

Suitable for the Handsomest Mansion or the Humblest Cottage.

The Tub is made of 24 Gauge Galvanized Steel, enameled white on the inside and blue outside. Relieved in gold and fully guaranteed.

We also furnish the Tub in White Metal Lining, Nickel Plated.

All Outfits supplied with 5½ foot Tub, unless otherwise specified.

Our Water Heater No. 10 as shown above is made of 24 gauge galvanized steel with copper coil and heat flue arranged at bottom of heater.

The capacity of Heater is about 14 gallons.

We also furnish Heater No. 11, same dimensions as No. 10 with white metal, nickel plated jacket on outside. Prices within reach of all.

PRICE LIST.

Price with 5½ Foot Steel Enameled Bath Tub, with No. 10 Galvanized Steel Heater..... **$14.50**

Price with 5½ Foot Nickel Plated Bath Tub, with No. 11 Nickel Plated Heater..... **$17.50**

Chicago House Wrecking Co., Chicago, Ill.

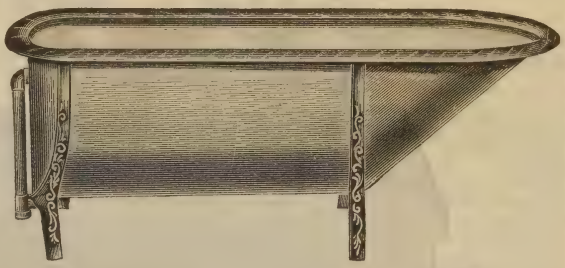
Bainbridge Ohio.

Gentlemen:—We want to write you that we are more than pleased with Combination No. 5, we have the most beautiful home in this vicinity everything came true to your guarantee.

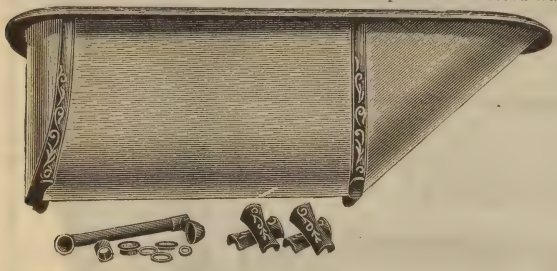
Mrs. J. R. Head, Bainbridge, Ohio.

STEEL BATH TUBS.

STEEL BATH TUB No. 52.

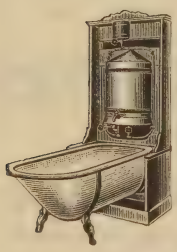


This is a strictly new guaranteed perfect sheet steel Bath Tub, made of one thickness of galvanized steel. It is strong and durable and just the tub to make comfortable the home of those in moderate circumstances. The tub has 2 soldered seams and these seams are supported by iron mountings extending up to the rim. They are furnished with improved legs made with detachable feet. The feet are taken off for crating and cannot be broken in transit. The tubs are furnished with nickel plated connected waste and overflow, with rubber stopper and these are removed and packed inside for shipping. These tubs are fitted with heavy oak wood rims, made from 1½ inch stock, carefully filled, finished, rubbed and varnished. All tubs white enameled inside and light blue enameled outside. The legs and iron mountings are neatly bronzed. Width over rims 27½ inches, width inside 22½ inches, height over all set np 22 inches, depth inside 18 inches.



Size 4 or 4½′ long	Price	**$5.50**
Size 5′ long	Price	**6.00**
Size 5½′ long	Price	**6.25**
Size 6′ long	Price	**7.00**

FOLDING BATH TUBS.

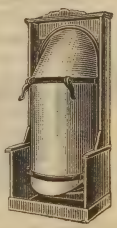


OPEN

These illustrations show the newest and best Folding Bath, with iron heater. These Tubs are portable and not fastened to the wall; they operate same as a folding bed. When closed can be stored in a space 2½x2½x5 feet 8 inches. We have no lever or wooden wheels in our device to break or get out of order. Our folding device is the simplest, strongest and most complete device known.

The Tub is made of galvanized steel, white enameled inside and blue outside. The enamel is baked on. The Tub is reinforced with iron bands, terminating in the feet. Has a polished wood rim, and an outlet that can be easily attached to an iron pipe or the water can be conducted away through a rubber hose.

Ordinarily the heater is furnished for gasoline, but we will furnish heater for natural or manufactured gas or for oil. In ordering state kind of burner wanted.

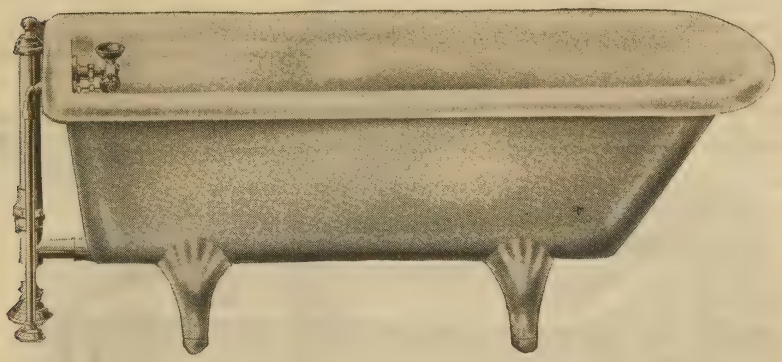


CLOSED

Price of Complete Folding Bath and Heater	**$21.85**
Price of Folding Bath without Heater	**13.00**

These Folding Tubs are Usually Shipped from our Factory in Michigan.

White Porcelain Enameled Bath Tubs.



We are offering you a strictly perfect cast iron, seamless, white procelain enameled bath tub, guaranteed in every way. Our guarantee means that should the enameling in any way chip or become defective within one year after its purchase that we will furnish another tub to replace it, provided tub is returned to us by freight and the dated guaranteed label attached to tub to be returned with the tub. We do not mean to replace the fittings with this after they have been used.

Our guarantee only includes replacing of the tub itself.

These tubs have a 3-inch roll rim, fancy designed cast iron feet, are enameled on the inside and over the roll rim, and painted with one coat of iron filler on the outside.

We will finish these tubs on the outside with a zinc white finish, using five coats of paint, the first coat being rubbed off with sand paper and pumice stone, the finish being perfect and smooth, at an additional price of $9.50. Tubs when so finished have to be boxed; they cannot be shipped crated. Our price for the additional finish includes the boxing and delivery on board cars.

These tubs are furnished complete with the following fittings: Nickel plated Fuller double bath cocks, nickel plated standing Roman waste, nickel plated brass supply pipes, nickel plated floor flanges' etc., all the trimming being high grade.

In ordering mention

STYLE No. 41.

Price includes tub and trimmings.

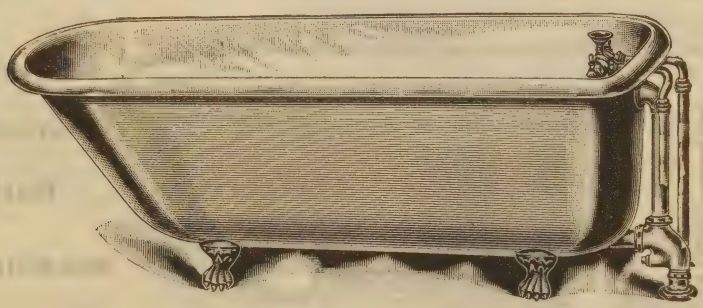
Length, ft.	
4	$28.00
4½	28.00
5	30.00
5½	33.00
6	36.50

STYLE No. 42.

Just the same as above but without our guaranteed label, at the following prices:

Length, ft.	
4	$26.00
4½	26.00
5	28.00
5½	31.00
6	34.50

Rolled Rim Enameled Bath Tub.



STYLE No. 35½.

Three inch roll rim porcelain enameled iron tub, trimmed with nickel-plated No. 4½ Fuller double bath cock; nickel-plated off-set supply pipes, and combined nickel-plated, connected waste and overflow and bath trap; nickel-plated chain and rubber stopper. The trap on the connected waste and overflow is of heavy cast brass, with a clean out plug, and the whole is heavily nickel-plated.

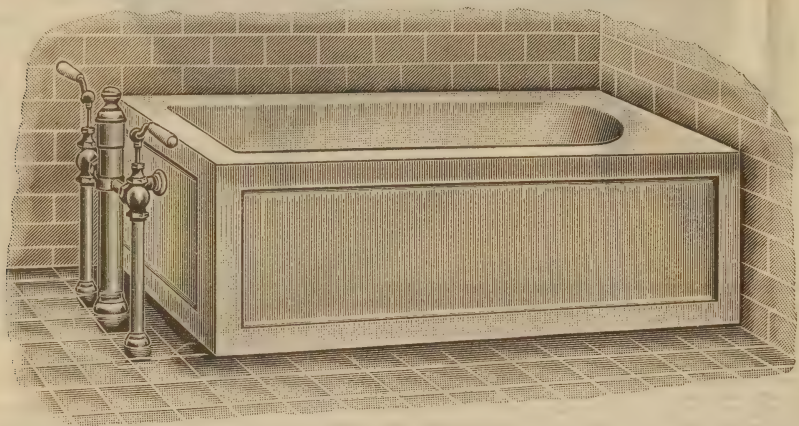
4 foot tub	$22.00	5½ foot tub	$25.50
4½ foot tub	22.00	6 foot tub	28.50
5 foot tub	23.00		

1¼ iron pipe thread tail piece on outlet of trap, extra, $0.50.

Solid Porcelain Plumbing Fixtures

The following plumbing fixtures represent absolutely the very best and most expensive plumbing material manufactured. Solid porcelainware is certainly the ideal material for bath tubs, lavatories, etc. There could be nothing desired more beautiful than this snowy white, indestructible material. This class of goods differs very much from the cast iron white porcelain enameled ware, in that the entire body is made of eathenware clay and consequently the glazing and body of the material are of the same texture and there is no possiblily of any chipping

In localities where there is strong mineral water that stains enameled iron ware and that spoils the glossy surface in a comparatively short longth of time, this solid porcelain ware will prove practically impervious to such damage. We offer this practically high grade material at extra low prices.



Style No. 100. Solid porcelain pedestal corner bath tub designed to rest directly on the floor. These tubs are glazed inside and over the rolled rim, and over the entire front, outside, to the floor. The exposed end where the fixtures are placed is finished in a white painted glazed finish. We can furnish these tubs in either right hand or left hand, for the corner. These tubs are 62 inches long, 31 inches wide over all, depth 19 inches inside, and 22 inches from the floor to the top of the rim.

The outlet is on the end and it is arranged so that the tub must be placed in position and the fittings adjusted before the floor is put over the joints as the connections are made below the floor level. We furnish this tub with nickel plated brass waste plug and stopper for the bottom, and with a nickel plated Fuller double bath cock, with nickel plated offset supply pipes and overflow arranged to connect in the end opening in the tub 5½ inches from the top of the rim.

The price of the bath tub, complete as described, is..... **$40.00**

STYLE No. 101 BATH TUB. The same bath tub as described above except fitted with a compression Bell supply fitting as shown in the illustration above This is a special fitting made of heavy brass, nickel plated, connecting the waste in the bottom of the tub and the overflow in the end and admitting the water through the end opening. The handles controling the hot and cold water valves project above the rim of the tub and have china index buttons marked respectively "Hot" "Cold" and "Waste". These are the highest grade nickel trimmings.

The price of this bath tub with this compression fitting, is..... **$60.00**

French Porcelain Bath.

Style No. 102. These solid porcelain tubs are designed to stand on feet as shown in the illustration. They are white glazed inside and over the rolled rim and finished with an ivory white painted glazed finish on the exposed side. These tubs are fitted with the nickel plated compression Bell supply fitting as shown in the illustration. The handles are marked respectively "Hot" "Cold" and "Waste". This is strictly high grade material throughout. Price of bath tub with fittings as described above, 4 feet 10 inches long outside..... **$40.00** Tub 5 feet 4 in. outside..... **$50.00**

Solid Porcelain Lavatories

On Porcelain Pedestal.

No. 105a. These lavatories are 24 inches by 33 inches with a 13 inch by 17 inch flat back oval basin. These lavatories are moulded in two pieces, the oval slab containing the basin; and the pedestal. They are white glazed inside and outside and the pedestal is glazed. Style 105 is shown in the above illustration with the plain "Ionic" pedestal trimmed with nickel plated semi-low down basin cocks, with china index handles marked respectively "Hot" and "Cold" and with a lifting waste marked "Waste", with nickel plated air chamber supply pipes to the wall with stop valve and nickel plated vented flask trap to the wall. Price, complete as described **$30.00**

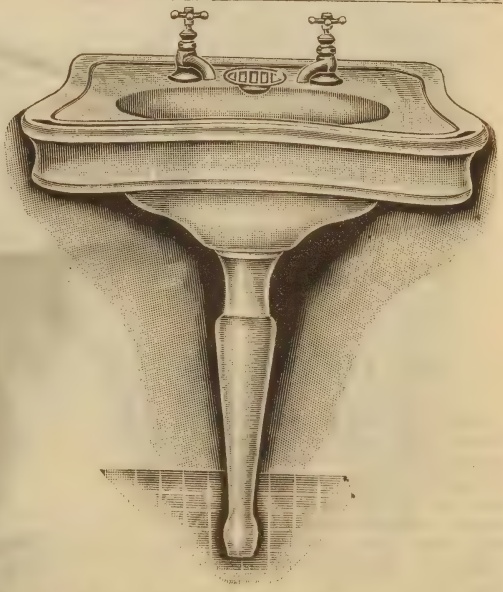
STYLE No. 105. Is similar to the 105 A. except that it has the fluted pedestal, Price complete with fittings as described above,... **$30.00**

STYLE No. 105 C. Is the same as 105 A. except that it has a gracefully curved pedestal, slightly egg shaped, presenting a very pleasing effect. Price complete with fittings as described above,..... **$30.00**

We can furnish any of the above lavatories with a special nickel plated Fuller combination supply and waste fitting with china handles. This fitting has the handles projecting through the cock holes but the hot and cold water supply is combined at the center surrounding the waste and would discharge mixed cold and hot water into the basin through one opening. This is one of the most exclusive late style fittings and a lavatory when finished with this would also have nickel plated supply pipes with air chamber and valves to the wall. This combination fitting would increase the cost of the above lavatories $10.00, making the price of any one of these..... **$40.00**

Solid Porcelain Lavatory.

Single Porcelain Leg.

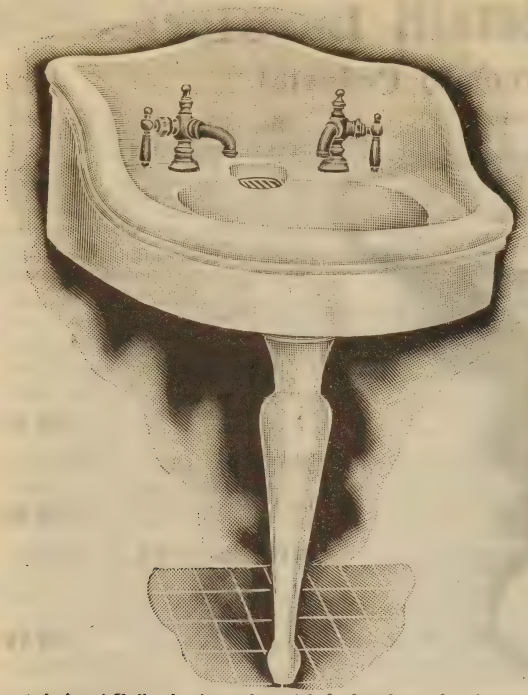


No. 106. These solid porcelain lavatories are meant to be placed against the wall without back and are fitted with one leg as shown in the illustration and with wall connection. They are made with patent overflow trimmed with nickel plated semi-low down basin cocks with china index handles, nickel plated 1¼ inch half S trap waste to the wall and nickel plated supply pipes to the wall.

Prices.

Sizes 22 inches by 24 inches....	**$15.00**
26 inches by 24 inches	**17.50**
30 inches by 24 inches.....	**20.00**

Any of the above sizes furnished with N. P. Roman Lifting Waste instead of Chain and Stopper for $3.50 extra.



Round Front High Back Solid Porcelain Lavatory No. 107.

These lavatories are made with patent overflow basin as shown in the illustration and are trimmed complete with nickel plated Fuller basin cocks, with one solid porcelain leg, nickel plated supply pipes to the wall and nickel plated half S straps with waste to the wall, size 25 inches long, 23 inches from finished wall to front, and back 8 inches high. Price complete as described above,..... **$15.00**

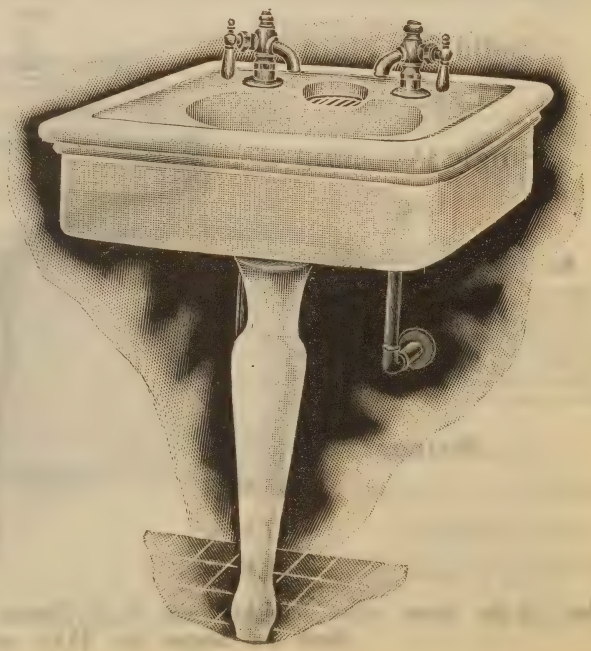
STYLE No. 108. This is a lavatory similar to the No. 107, size 20 inches by 20 inches with solid back 6 inches high and one nickel plated brass leg and wall connection. These lavatories are quite similar to style No. 107 but they have a square, round cornered slab instead of the round front. Price complete as described,..... **$13.00**

STYLE No. 109. This is a lavatory very similar to the No. 107 but made for corner with a solid 6 in. high back and fitted with a solid porcelain leg and wall connection. Size 19½ in. long on sides, 25 inches from corner of wall to the front. Lavatory is trimmed with patent overflow. nickel plated Fuller basin cocks, nickel plated supply pipes to the wall and half S trap with waste to the wall. Price complete as described,..... **$15.00**

STYLE 109a. Corner Lavatory same as above only with N. P. lifting Roman Waste Fitting instead of Chain and Stopper, otherwise complete as above. Price... **$17.00**

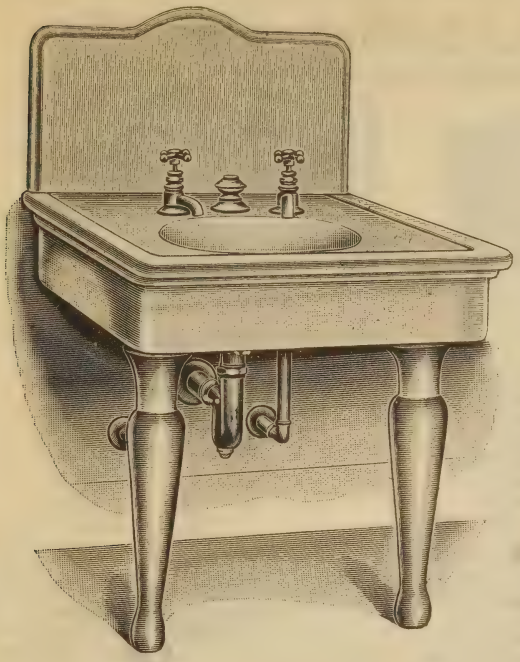
Square Rolled Rim Lavatory Solid Porcelain

No. 110.



This is a lavatory with apron, without back as shown in the illustration and is 24 inches by 22 inches. It is fitted with one solid porcelain leg and wall connection, with nickel plated Fuller basin cocks, nickel plated supply pipes to thewall and nickel plated half S trap with waste to the wall.

Price complete as described, ... **$16.00**



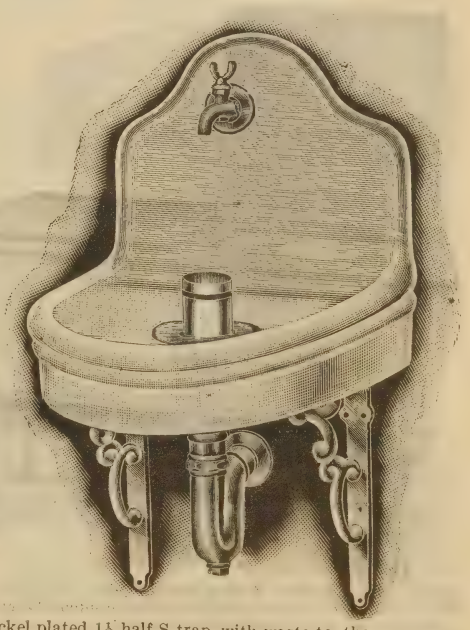
Solid Porcelain Loose Back and Solid Porcelain Legs Lavatory

No. 111.

This is made with a lifting waste and overflow and is fitted with two solid porcelain legs and wall conections. It is trimmed with nickel plated compression semi-low down basin cocks, nickel plated supply pipes to the wall, nickel plated lifting waste with china index marked respectively "Hot" "Cold" and "Waste" and half S trap to the wall.

Size 24 inches by 22 inches complete as described.....**$17.00**
Size 27 inches by 24 inches complete as described, ... **19.00**

Solid Porcelain Drinking Fountain No. 112.



This is a solid one-piece drinking fountain with nickel plated self closing faucet, nickel plated brackets, nickel plated outlet fitting and nickel plated 1¼ inch half S trap with waste to the wall. Price complete as described and as per the illustration, ...**$15.00**

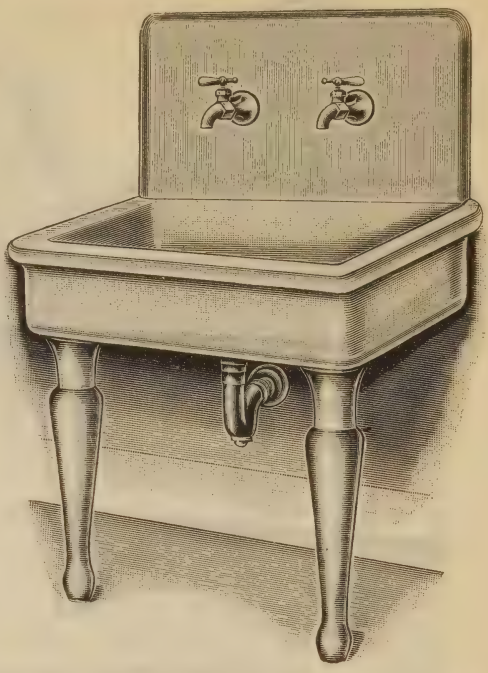
STYLE No. 112 B. This is a solid porcelain drinking fountain quite similar to the style 112 A, except that it is wider and is fitted with two nickel plated self closing faucets, two waste connections and fittings to hold tumblers. It is supplied with a pair of nickel plated brackets, with double outlet. having a connection to trap and nickel plated 1¼ half S trap with waste to the wall and two nickel plated flanged self closing faucets. Price complete as above described,..**$15.00**

STYLE No. 112 C. This is a single solid porcelain drinking fountain with bowl and fastens up without brackets. It is fitted with a single nickel plated self closing faucet with nickel plated strainer, waste and coupling and 1¼ half S trap with waste to the wall. Price complete as described,.....**$10.00**

Solid Porcelain Kitchen Sink

With Loose Back

No. 113a



This sink is 20 inches by 30 inches, and 7 inches deep inside, back 15 inches, trimmed with nickel plated flanged Fuller bibbs and nickel plated strainer, coupling and nickel plated half S trap with waste to the wall, and with two solid porcelain legs with wall connections.
Price complete as described, ... **$13.00**

STYLE No. 113 B. This is a one-piece solid porcelain kitchen sink 20x30 in. and is fitted with two solid porcelain legs with wall connections, and with a pair of nickel plated flanged Fuller bibbs, nickel plated strainer and coupling and nickel plated half S trap with with waste to the wall. Price complete as described **$15.00**

Flat Rim Solid Porcelain Laundry Trays. No. 114.

These flat rim solid porcelain laundry tubs are white glazed inside and buff color outside. They are fitted with galvanized iron legs as shown and can be readily equipped with wooden frame and wooden hinged covers as shown in illustration. Size, 24 inches long, 24 inches wide, and 16 inches deep inside.

One part tub with waste plug and rubber stopper, flanged laundry tray bibbs, and galvanized iron legs as shown in the illustration ..... **$ 7.00**

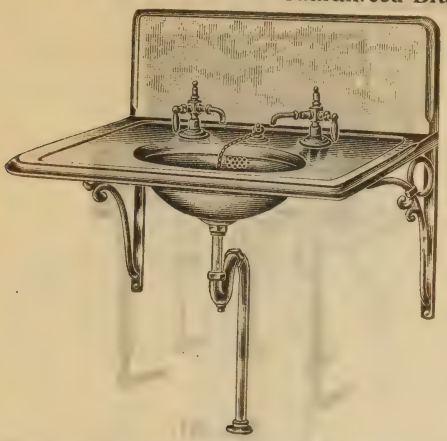
Two part tub as above described **13.00**

One part glazed inside and out. Complete as above described **10.00**

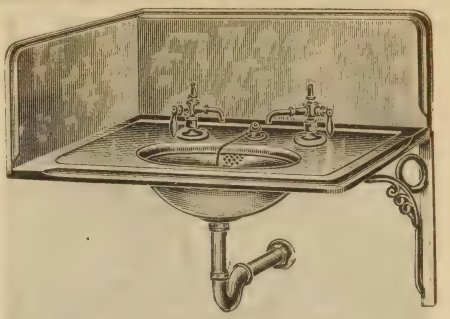
Two parts white glazed inside and outside. Complete as above described **19.00**

POLISHED MARBLE LAVATORIES.

Guaranteed Brand New and Perfect.



No. 21.



No. 22.

We will furnish this lavatory with "S" trap to floor instead of "P" trap to wall at same price.

Brand new Champion pink Tennessee or Italian marble lavatory, guaranteed perfect in every way. Complete with nickel-plated Fuller basin cocks, one pair nickel-plated brackets and nickel-plated "S" trap from basin to floor, including floor flange plate. Exactly as shown in cuts, or with "P" trap from basin to wall.

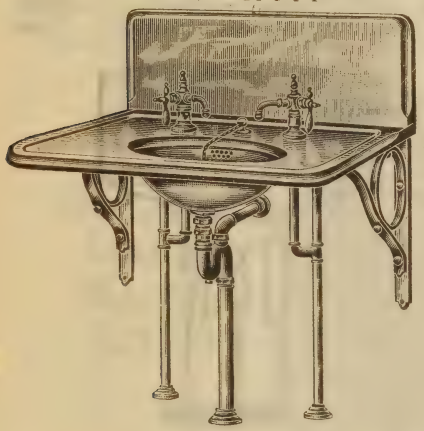
No. 21, straight back.

Price, 14 inch round basin ..... $ 9.00
" 14x17 inch oval " 10.00

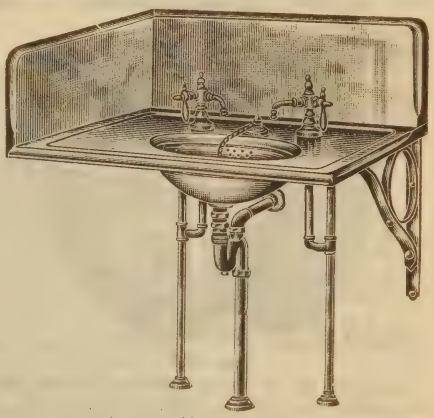
No. 22, with one bracket and back and end piece for right or left hand corner, and trap to wall. (Illustration shows left hand corner.)

Price, 14 inch round basin ..... $ 9.00
" 14x17 inch oval basin 10.00

For supply pipes for the above plain, nickel-plated, add $1.50.



No. 28.



No. 29.

Consists of 1¼ inch Italian countersunk marble slab with back, patent overflow basin with metal plug and rubber stopper, nickle-plated chain stay, chain and snap, two Fuller nickle-plated basin cocks, two nickle-plated brass brackets, three basin clamps, 1¼ inch brass nickle-plated "S" trap (waste to floor and vent to wall), two nickle-plated supply pipes with air chambers (to floor), wall and floor flanges.

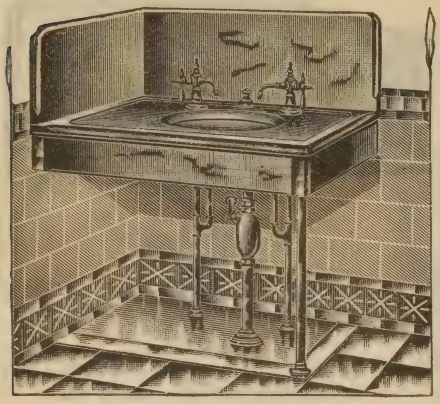
Price, No. 28, complete as described..... $11.50
" No. 28½, same as above, Tennessee marble 11.00
Above with 14x17 inch basin, add 1.00

No. 29, with one bracket and back and end piece, for right or left hand corner. (Illustration shows left-hand corner.)

Price, No. 29, Italian marble $11.50
" No. 29½, Tennessee marble 11.00
Above with 14x17 inch basin, add..... 1.00

POLISHED MARBLE LAVATORIES.

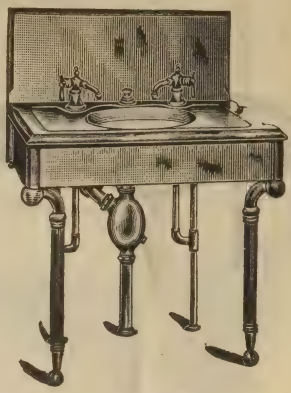
Guaranteed Brand New and Perfect.



No. 30.

Consists of 1¼ inch Italian countersunk marble slab, with 12 inch back and left hand end, 5 inch apron on front and right hand end, 14x17 inch oval basin, nickel-plated patent basin waste, two Fuller nickel-plated basin cocks, one nickel-plated brass apron leg, two nickel-plated apron supports, three basin clamps, 1¼ inch nickel-plated brass trap with vent to wall and waste to floor, two nickel-plated supply pipes with air chambers (to floor), floor and wall flanges.

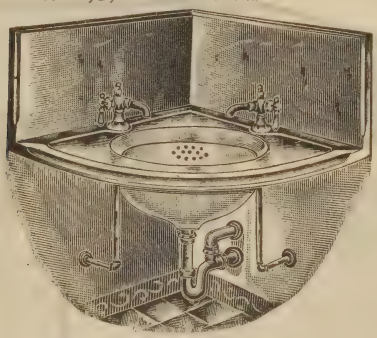
Price, No. 30, Italian marble.....$20.00
" No. 30½, Tennessee marble..... 19.00



No. 31.

Consists of single back lavatory, 1¼ inch Italian countersunk marble slab, with 12 inch back, 5 inch apron on front and ends, 14x17 inch oval basin, nickel-plated patent basin waste, two Fuller nickel-plated basin cocks, two nickel-plated brass apron legs, two nickel-plated apron supports, three basin clamps, 1¼ inch nickel-plated brass trap with vent to wall and waste to floor, two nickel-plated supply pipes with air chambers (to floor), floor and wall flanges.

Price, No. 31., Italian marble.....$21.00
" No. 31½, Tennessee marble..... 20.00

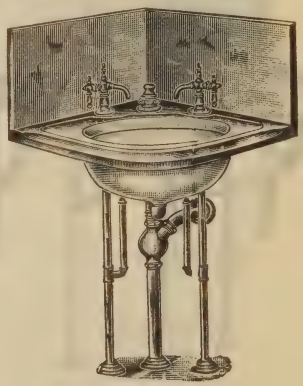


No. 24.

Consists of ¼-circle Italian marble lavatory with two backs, Fuller basin cocks, 14 inch patent overflow porcelain basin, nickel-plated vented "P" trap, waste and vent to wall and nickel-plated supply pipes to wall, nickel-plated chain and rubber stopper, clamps, flanges, etc., complete.

Price, No. 24, Italian marble, 14 inch basin.....$10.00
Price, No. 25, Italian marble, 14x17 basin 11.00
Price, No. 24½, Tennessee marble, 14 inch basin..... 9.50
Price, No. 25½, Tennessee marble, 14x17 inch basin..... 10.50

Trap and supplies to floor, no extra charge. Trap without vent, same price.



No. 26.

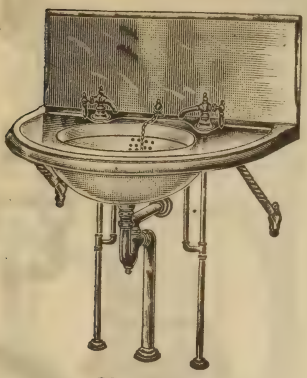
Consists of ¼-circle Italian marble lavatory with two backs, Fuller basin cocks and 14x17 inch porcelain basin, nickel-plated Roman lifting waste, nickel-plated flask trap, waste to floor and vent to wall, nickel-plated air chamber supply pipes, clamps, flanges, etc., complete.

Price, No. 26, Italian marble.....$16.00
" No. 26½, Tennessee marble..... 15.00

Trap waste and supply pipes to the wall when so specified, no extra charge.

POLISHED MARBLE LAVATORIES.

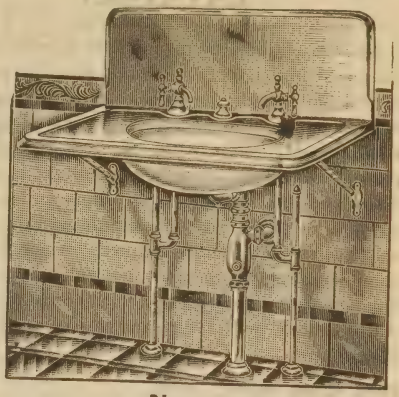
Guaranteed Brand New and Perfect.



No. 58.

Consists of ½-circle countersunk Italian marble lavatory, with single back, 14x17 inch patent overflow oval basin, nickel-plated Fuller basin cocks, nickel-plated vented "S" trap, waste to floor and vent to wall, nickel-plated air chamber, supply pipes to floor, nickel-plated brass rope pattern brackets, nickel-plated chain stay, chain, stopper and flanges.

Price, No. 58, complete as described....$13.00
" No. 58½, Tennessee marble 12.50
Above with 14 inch round basin, deduct, 1.00

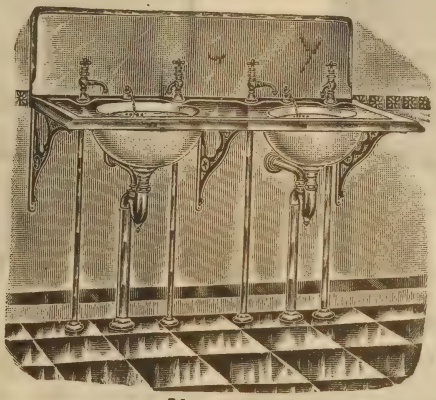


No. 59.

Consists of countersunk Italian marble lavatory with single back, oval basin and nickel-plated Roman lifting waste, nickel-plated Fuller basin cocks and air chamber, supply pipes to floor, nickel-plated vented flask trap, waste to floor, vent to wall, nickel-plated rope pattern brass brackets, flanges and clamps.

Price, No. 59, complete as described....$16.00
" No. 59½, Tennessee marble 15.50

Beautiful Italian Marble $25.00



Nickel Plated Open Plumbing

No. 23.

Consists of marble slab and back, fitted with two patent overflow basins, nickel-plated compression basin cocks, nickel-plated vented "S" traps, nickel-plated brackets and nickel-plated straight brass supply pipes, clamps, chain stays, chains, stoppers and flanges.

Price, two 14 inch bowls, Italian marble.....$25.00
" " 14x17 inch bowls, Italian marble..... 28.00
" " 14 inch bowls, Tennessee marble..... 24.00
" " 14x17 inch bowls, Tennessee marble..... 27.00
For each additional 14 inch bowl, add..... 11.00
" " " 14x17 inch bowl, add..... 13.00

ENAMELED PEDESTAL LAVATORY

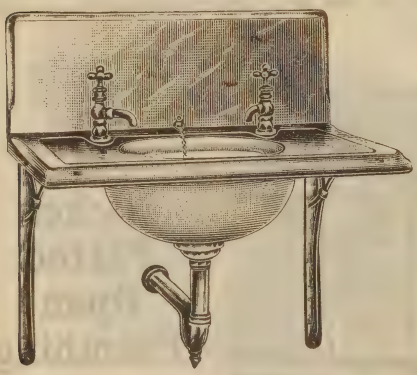
No. 047. Consists of modern handsome white enameled iron Lavatory, oval slab with aprons and oval basin cast in one piece. It stands on a white enameled cast iron pedestal, and has nickel plated clamps and floor bolts. Trimmed with nickel plated, semi-low down compression basin cocks, cross and ball handle with china index marked "Hot" and "Cold," with nickel plated Roman lifting waste with china index marked "Waste," with air chamber supply pipes to the wall with a wheel-handled stop valve on each, with nickel plated flask trap, vented, with vent and waste to wall, wall flanges, etc.

High Grade Outfit, price.....$28.00

MARBLE LAVATORIES

From the World's Fair, St. Louis. All Trimmings New.

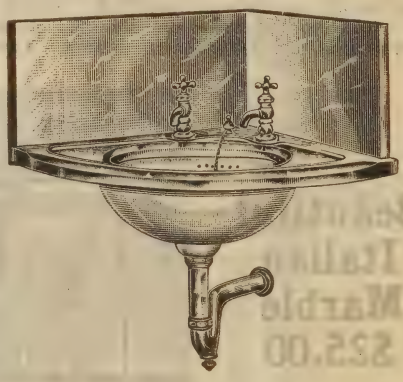
In dismantling the St. Louis exposition, we secured several hundred lavatories. The basin cocks and trimmings have never been used.



No 50.

No. 50. Consists of Italian or Tennessee marble slab and single back, with enameled metal basin, new compression basin cocks, brackets, and new nickel plated trap with waste to wall, wall flange, clamps, chain and stopper.

Price, 14-inch earthenware basin.....$7.25
Price, 14x17-inch, earthenware basin .. 8.00



No 52.

No. 52. Consists of ¼-circle Italian or Tennessee marble slab, with two backs, new compression basin cocks, enameled metal basin, and new nickel plated trap with waste to wall, wall flange, clamps, chain and stopper.

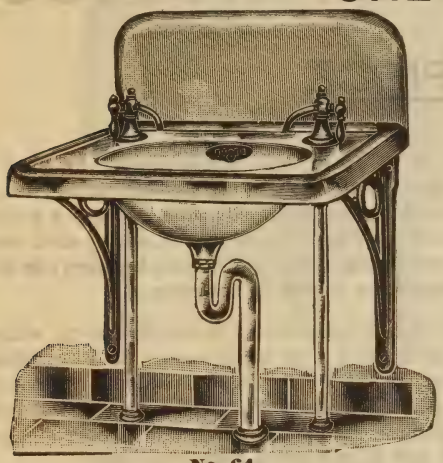
Price, 14-inch earthenware basin.....$7.75
Price, 14x17-inch earthenware basin ... 8.50

Vented traps furnished for above at additional price of.....$0.50
N. P. brass supply pipes furnished for above at additional price of..... 1.50
N. P. plain brass "S" traps, with waste to floor, instead of as above, extra..... .75

WE CAN FURNISH ALL THE MATERIAL NEEDED FOR PLUMBING YOUR HOUSE COMPLETELY.

CAST IRON ROLL RIM ENAMELED LAVATORIES

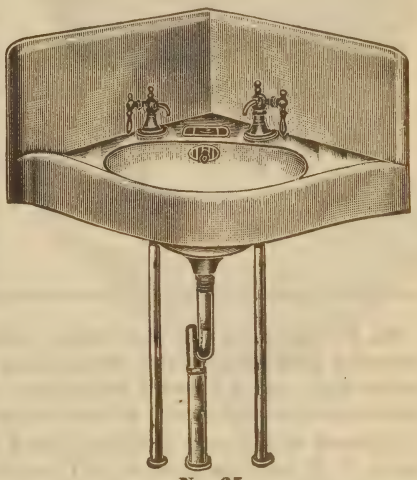
ONE PIECE



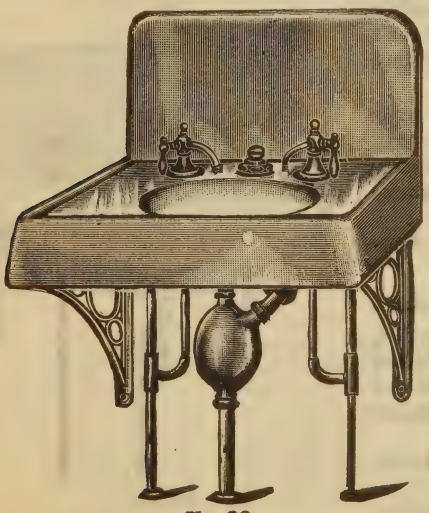
No. 64.

No. 64. Countersunk white porcelain enameled Lavatory, size 18x24 inches, with 10-inch back and 11x15 basin, all cast in one piece and heavily enameled. It has a heavy, graceful roll rim, and is furnished complete with N. P. Fuller basin cocks, N. P. brass supply pipes with floor flanges; N. P. "S" trap and floor flange, with overflow strainer, chain stay, N. P. chain and rubber stopper, and a pair of graceful brackets.
Price, complete, as described.....$10.00

No. 65. Countersunk white porcelain enameled iron Lavatory, for corner. The slab, back, basin and apron are all cast in the one piece and heavily enameled. The basin is 11x15 inches and the apron 5 inches deep, the Lavatory is furnished with N.P.Fuller basin cocks, N. P. brass supply pipes, N. P. "S" trap, floor flanges, N. P. overflow strainer, chain stay, chain and rubber stopper.
Price, complete, as described.....$11.00



No. 65.



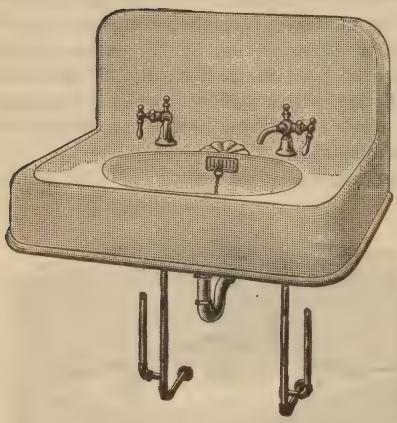
No. 66.

No. 66. Countersunk white porcelain enameled iron Lavatory, size 20x24 with 10-inch back; 11x15 basin, and 5-inch aprons, all cast in one piece and heavily enameled. Lavatory is made for "Roman" lifting waste, and this waste is furnished, together with N. P. Fuller basin cocks, N. P. brass supply pipes, and N. P. "S" trap with floor flanges; brackets and screws. No chain or stopper is required for the lifting waste.
Price, Lavatory complete, as described, $15.00

We offer millions of dollars' worth of building material from the St. Louis Exposition

Cast Iron Roll Rim Enameled Lavatories.

ONE PIECE



No. 44.

No. 44. Countersunk, white porcelain enameled iron lavatory, size 18 x 24 inches with back 10 inches high; and a graceful 5-inch apron. It has a patent overflow, oval bowl 11x15 inches, and a shell soap cup cast in the slab. **The entire lavatory, as described above, is cast in one piece.**

We trim it complete as shown in the cut with a pair of N. P. Fuller basin cocks; N. P. overflow strainer, and chain stay; N. P. brass supply pipes, to the wall; N. P. brass "P" trap, with waste to the wall; wall flanges, etc.; N. P. chain and rubber stopper and a pair of **concealed iron brackets.**

Price, complete as described, enameled inside and bronzed outside..... $10.00

Exposed brackets; "S" trap with waste to floor; or supply pipes to floor, same price.

No. 45. Countersunk, half circle, white porcelain enameled iron lavatory, size 18x21 inches, with back 8 inches high, and a graceful rolled rim. 11x15 inch patent overflow oval bowl. All cast in one piece.

Trimmed with a pair of Nickel Plated Fuller basin cocks; N. P. overflow strainer; N. P. supply pipes and N. P. "S" trap with waste to floor; floor flanges, etc.; N. P. Chain and rubber stopper and a pair of painted iron brackets.

Price complete, enameled inside, bronzed outside. $9.00

No. 45.

No. 46. Similar to No. 45 only it is 18x24 inches, with a back 10 inches high, and it has a very handsome heavy roll rim. Trimmed same as No. 45 only we can furnish concealed brackets for this when they are specified.

Price complete, enameled inside, bronzed outside. $10.00

No. 46 has a "D" shaped or oval straight back basin.

WHITE ENAMELED LAVATORIES.

Solid, One-Piece, Seamless, Iron Lavatories, White Porcelain Enameled. Each one complete with brackets and nickel plated overflow. No other fittings. Our charge for fittings extra is noted below. These lavatories are absolutely new, but are Class "B" with Ivory Enamel, or pin hole or some other slight blemish.

LOT No. 76.

One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; 12-inch Round Bowl. Length of back, 15 inches. Height of back, 6 inches.

Price, each $3.25

LOT No. 77.

Corner, One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay, Nickel Plated Soap Cup, Oval Bowl, 11x15. Length on side, 16 inches. Height of back, 6 inches.

Price, each $4.25

LOT No. 78.

Same as above, with 8-inch back.

Price, each $4.65

LOT No. 79.

Same as cut. Length on sides, 19 inches. Bowl, 11x15. Height of back, 8 inches.

Price, each $5.00

LOT No. 75.

Corner, One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; 12-inch Round Bowl. Length on sides 15 inches. Height of back, 6 inches.

Price, each $4.25

LOT No. 80.

One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug Rubber Stopper and Chain Stay; Oval Bowl 11x15. Length of back, 19 inches. Height of back, 6 inches.

Price, each $4.65

LOT No. 81.

Same as above, with 8-inch back.

Price, each $4.65

LOT No. 82.

Same as cut. Size of slab, 18x24; 10-inch back.

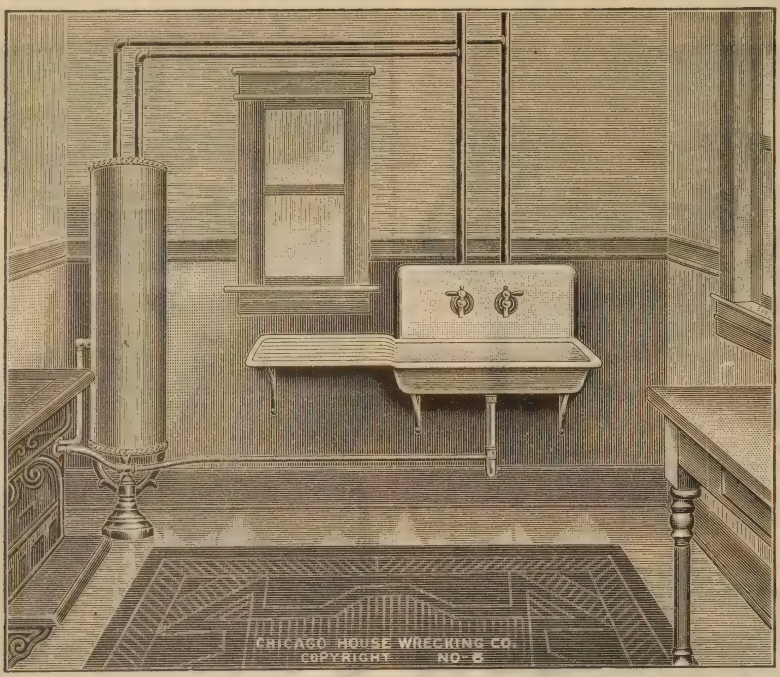
Price, each $6.25

LAVATORY TRIMMINGS.

Basin Cocks, Fuller, per pair	$1.70
Basin Cocks, Compression, each	.55
Basin Cocks, Compression, extra pattern, Cross and Ball Handle and China Indexes, made with stuffing box, per pair	2.50
1¼ N. P. plain "S" traps, each	1.75
1¼ N. P. plain "P" traps, each	1.65
1¼ N. P. vented "S" traps, each	2.00
1¼ N. P. vented "P" traps, each	$1.90
Supply pipes—straight N. P., per pair	1.50
Supply pipes—air chamber, N. P., per pair	2.00
Supply pipes—to wall, no air N. P., per pair	1.75
Supply pipes—to wall, air chamber, per pair	2.50

Notice Our Complete Bathroom Outfit at $37.50

Kitchen Combination No. 6.



This handsome sanitary and modern complete Kitchen Combination consists of the following:—Cast Iron, white porcelain enameled, heavy roll rim kitchen sink with 15-inch roll rim, high back. The size of sink is 18x30. The drain board is cast iron, white porcelain enameled and reversible, and can be placed at either side. Size of drain board, 18x24. It is countersunk and grooved, so that the water will drain back to the sink. It is furnished complete with nickel plated brass strainer; sink bolts and collar for attaching trap to the sink; 1½ inch trap to the wall, The sink is complete with one pair of heavy brass nickel plated Fuller bibbs with flanges, fitted with two fancy brackets for sink and one for the drain board.

THE RANGE BOILER is galvanized iron, 200 pounds test; 30 gallons in size. Has fancy cast iron stand with brass coupling for lead or iron pipe and with an inside tube.

We furnish also an attachment from the range boiler to the range proper. We furnish for this a set of our lead pipe connections, 24 inches long to be used between the range and the boiler.

A WATER FRONT for your kitchen range. This consists of a cast iron attachment to fit in the front of the firebox of the kitchen range. It is made with two openings at one end; one above the other. Price, as described.....**$25.00**

QUALITY. This material is all new and perfect. With this sanitary enameled iron outfit, you can keep your kitchen as clean as your parlor. Both the drain board and the sink being enameled iron and absolutely non-absorbent, they can always be kept spotlessly white with little effort. Every first-class housewife will appreciate this advantage. The sink being arranged with brackets and waste connections to the wall leaves the floor open, and makes a very nice and simple arrangement for any kitchen. This outfit being open gives you an opportunity to keep your kitchen clean and sanitary at all times.

The waste pipe shown in this illustration leads from the sink to the range boiler and is not included in this price. If you wish us to make you a price on the pipe, send us an exact sketch of your kitchen, giving the location of the range, preferred location for the sink, etc., with measurements.

NOTE.—We can furnish this sink, size 18x24 instead of 18x30, at **$1.50**

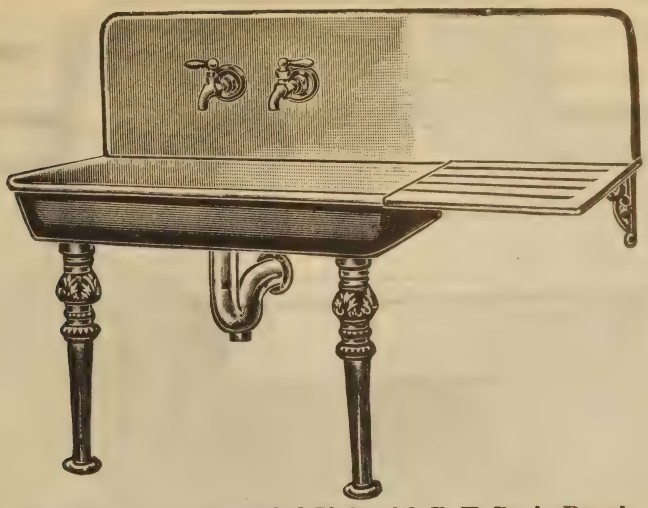
We will furnish you a 35 gallon range boiler at an additional price of **$1.25**, or a 40 gallon boiler at an additional price of.....**$2.50**

For those who wish to install their own plumbing, we can furnish the trap with this sink with iron pipe thread, so that the connection can be made with ordinary iron pipe threaded and screwed together. Extra for Iron Pipe thread on trap.....**$0.75**

If Water Front is not wanted deduct **$5.00.**

We can furnish this combination with other style sinks,—quotations on application.

Roll Rim Kitchen Sinks with Drain Boards



No. K49. White Enameled Sink with R. H. Drain Board.

No. K49. Heavy Roll Rim Sink, with 15-inch high roll rim back extending full length of sink and drain board, and cast iron roll rim, countersunk grooved drainboard 24 inches long and full width of sink, fitted into the depressed end of the sink. All above heavily white porcelain enameled. Furnished with two heavily nickel plated Fuller flanged bibbs, for hot and cold water, nickel plated strainer, sink bolts and collar, and a "P" trap, to the wall. They are class "B" enameled, that is with some slight imperfection

Sizes.	Price with 2 legs and 1 bracket.	Price with 3 brackets.
18x30	$15.00	$14.00
20x30	16.00	15.00
20x36	17.50	16.50
20x40	19.50	18.50

No. K49½. Same as above, with drain board on left hand end. Same prices.

No. K39. White Enameled Sink.

Enameled Iron Drain Boards

18 inches wide.. $3.00
20 inches wide.. 3.50

Price includes one bracket and clamp to fasten to sink. Will fit any iron or steel sink.

WHITE ENAMELED CAST IRON SINK AND DETACHABLE DRAIN BOARD

Drain Board is Reversible and can be used on Either End

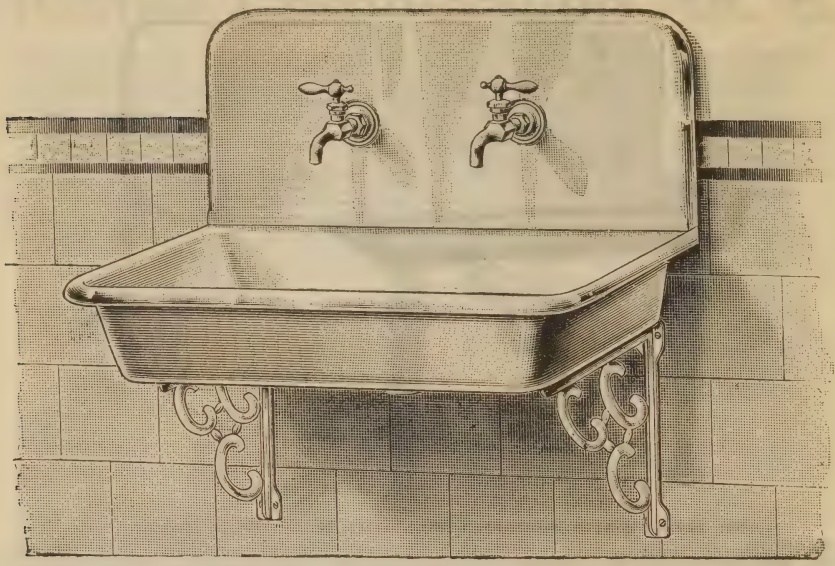
No. K39. Heavy roll rim Sink, Drain Board and Back. The outfit includes a white porcelain enameled cast iron sink with 15-inch roll rim enameled iron back and reversible cast iron enameled grooved drain board. Two heavily nickel plated Fuller flanged bibbs, for hot and cold water, nickel plated strainer sink bolts and collar for attaching the trap, and "P" trap, two ornamental cast iron brackets for the sink, and one for the drain board. The drain board is 24 inches long, and is made with lugs to bolt securely to the bracket

Sizes.	Price.	Sizes.	Price.
18x30	$12.00	20x36	$14.00
18x36	13.00	20x40	15.00
20x30	13.00		

Above Sinks with two ornamental bronzed legs for the sink and one bracket for the drain board Net extra $1.00

Large stock of Office Furniture for sale. Write for Special List

ROLL RIM KITCHEN SINK



No. 37. Brand New White Enameled Roll Rim Kitchen Sink with 15-inch back, heavy cast iron pipes and couplings, nickel-plated fuller bibbs, nickel-plated brass strainer and improved iron brackets. They are class "B" enameled, that is they have slight imperfection.

CAST IRON, WHITE PORCELAIN ENAMELED. HEAVY ROLL RIM.

18x24	$ 7.00
18x30	8.00
20x30	9.00
20x36	10.00
20x40	11.00

WROUGHT STEEL ROLL RIM KITCHEN SINKS

WITH HIGH BACK.

No. 38. Same as shown in above cut.

(Class "B"—with slight defects, but properly repaired.)

Brand new. Each sink complete with 15-inch enameled back, nickel-plated strainer, sink bolts, iron brackets, nickel-plated brass fuller bibbs, and iron collar for attaching trap.

Enameled on the inside and also on the outside of sink, in four different color enamels.

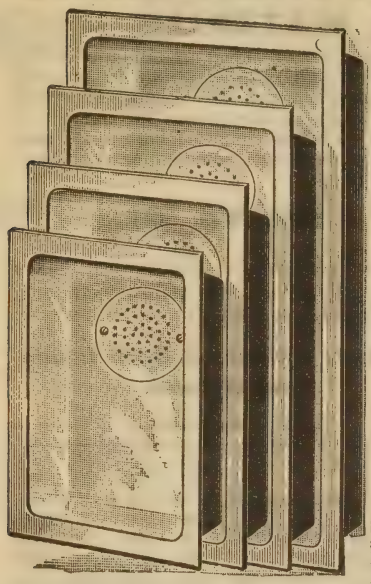
Blue inside and outside.
Agate inside and Gray outside.
Crystal inside and Light Gray outside.
White inside and Blue outside.

PRICES:

SIZES	BLUE	AGATE	CRYSTAL	WHITE
16x24	$3.75	$4.10	$4.25	$5.10
18x30	4.20	4.50	4.65	5.50
18x36	4.65	4.95	5.10	6.00
20x30	4.65	4.95	5.10	6.00
20x36	4.85	5.15	5.30	6.30
20x40	5.50	5.80	5.95	6.95

In Ordering Lot No. 38, give us first, second and third choice.

Flat Rim Cast Iron Sinks

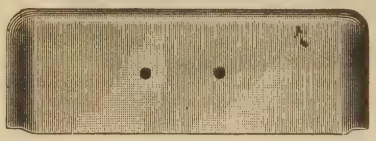


White Porcelain Enameled Iron Kitchen Sinks

No. K40. Furnished with nickel plated strainer, sink bolts and collar for lead trap. Slightly defective. Enamel is, however, still intact.

Sizes.	Price each
16x24	$1.50
18x24	1.65
18x30	2.00
18x36	2.25
20x24	2.10
20x30	2.50
20x36	2.60
20x40	3.00

SINK BACKS



K46. Cast iron, roll rim, white porcelain enameled, brand new. Can be used with any style sink. Neat, clean and sanitary. Two cock-holes drilled.

Length 24 inches.	Each	$1.50
Length 30 inches.	Each	1.75
Length 36 inches.	Each	2.00

Painted Cast Iron Kitchen Sinks

No. K42. With strainers, bolts and collars.

Sizes	16x24	18x30	18x36	20x30	20x36	20x40
Price each	$0.75	$1.00	$1.20	$1.20	$1.40	$1.60

Painted Wrought Steel Seamless Kitchen Sinks

No. K43. With strainers, bolts and collars.

Sizes	16x24	18x30	18x36	20x30	20x36	20x40
Price each	50c	60c	75c	75c	75c	$1.00

Miscellaneous Sink Bargains

We have in stock at this time a lot of Sinks from Underwriters' Sale that are considerably chipped. The casings are perfect but more or less of the enamel has been chipped on these sinks around the rim and sometimes around the outlet in the bottom. Or, there may be some sinks with the enamel practically perfect but with a corner of the rim broken off. They are all guaranteed not to leak. These sinks would be furnished with nickel plated strainer, sink bolts and collar.

We offer these in the following sizes: Lot No. D1.

18x24	$1.10
18x30	1.25
18x36	1.40
20x24	1.40
20x30	1.50
20x36	1.75

We have in this same lot of material some Roll Rim Sinks and backs. Their condition is about the same as described for the Flat Rim Sinks above. We offer these as follows: Lot N. D2.

18x30, with back and brackets	$5.00
20x30, with back and brackets	6.00
20x36, with back and brackets	7.00

We will furnish with the above Sinks a pair of brass fuller bibbs for iron pipe, and 1½-inch lead "P" Trap for $1.50 when ordered in connection with sink.

We have in these same lot some Enameled Drain-boards. These are interchangeable and can be hung over either end of the sink. They will fit either flat or roll rim sinks.

We are offering with these a bracket to support the drain-board. and a clamp to fasten the drain-board to the edge of the sink. We offer these at: Lot No. D3.

18" wide by 24" long	$1.75
20" wide by 24" long	2.00

We have in the same lot some Roll Rim White Enamel Kitchen Backs. They are generally damaged about as described above. Lot No. D4.

24 inches long	$0.75
30 inches long	1.00
36 inches long	1.25

The Above Lot of Defective Material is Offered Subject to Prior Sale

WROUGHT STEEL KITCHEN SINKS

ABSOLUTELY NEW MATERIAL

We purchased Three carloads of them at manufacturer's sale. They are unquestionably superior to any cast-iron sink, being stronger, more durable and lighter. They are drawn from a single sheet of steel. **They will not break from any cause whatever.** Steel being less porous than cast iron, they are more sanitary. Their great elasticity also avoids the danger of breaking dishes. **The Sinks in this list are all heavily porcelain enameled, both inside and outside, except the galvanized. They are Manufacturers' seconds, with some minor blemishes. They are all 6 Inches in Depth.**

Lot No. 01.

Seamless wrought steel kitchen sinks, with roll edges. (For use with brackets for exposed plumbing.)

Heavily Enameled Both Inside and Outside.

All 6 Inches in Depth.

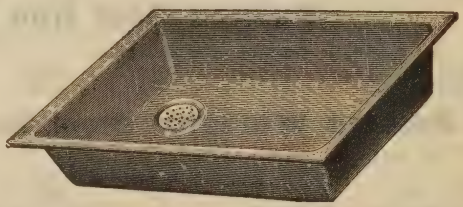
Width, inches	16	18	18	18	20	20	20
Length, inches	24	24	30	36	30	36	40
Blue Enameled inside and out	$0.73	$0.83	$0.93	$1.13	$1.13	$1.27	$1.50
Agate Enameled inside and out (gray)	.93	1.03	1.13	1.33	1.33	1.47	1.70
Crystal Enameled inside and out (light gray)	1.00	1.10	1.20	1.40	1.40	1.53	1.77
White Enameled inside and Blue Enameled outside	1.43	1.53	1.63	1.83	1.83	1.97	2.20
Galvanized inside and outside	.95	1.05	1.20	1.40	1.40	1.53	1.70

Lot No. 1.

Seamless wrought steel kitchen sinks, with flat edges.

Heavily Enameled Both Inside and Outside.

All 6 Inches in Depth.



Width, inches	16	18	18	18	20	20	20
Length, inches	24	24	30	36	30	36	40
Blue Enameled inside and out	$0.70	$0.80	$0.90	$1.10	$1.10	$1.23	$1.47
Agate Enameled inside and out (gray)	.90	1.00	1.10	1.30	1.30	1.43	1.67
Crystal Enameled inside and out (light gray)	.97	1.07	1.17	1.37	1.37	1.50	1.74
White Enameled inside and Blue Enameled outside	1.40	1.50	1.60	1.80	1.80	1.94	2.17
Galvanized inside and outside	.90	1.00	1.17	1.37	1.37	1.50	1.67

The above prices are for sinks, with cast iron couplings for lead pipe.

ADD EXTRA PER SINK:

If ordered for iron pipe connection	each	$0.20
If ordered with rubber stoppers	each	.20
If ordered with rubber stoppers and detachable overflow grates	each	.37

Wroughs Steel Sink Backs.

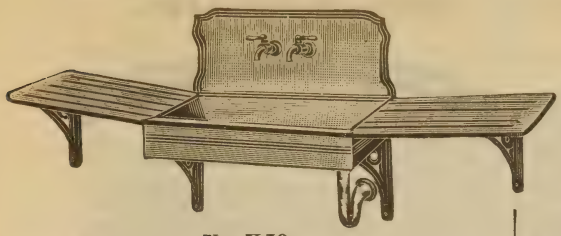
We will furnish Heavy Enameled Seamless Backs for above Sinks, with 1 or 2 cock holes as follows:

Width, inches	20	24	30	36
Blue Enameled	$0.38	$0.44	$0.52	$0.64
Agate Enameled	.40	.46	.54	.67
Crystal Enameled	.44	.50	.58	.70
White Enameled	.50	.60	.70	.83
Galvanized	.45	.50	.58	.70

BRACKETS.

We will furnish cast iron Brackets for Kitchen Sinks ..... per pair **$0.37**

Above sinks offered subject to prior sale. We may be out of certain sizes.



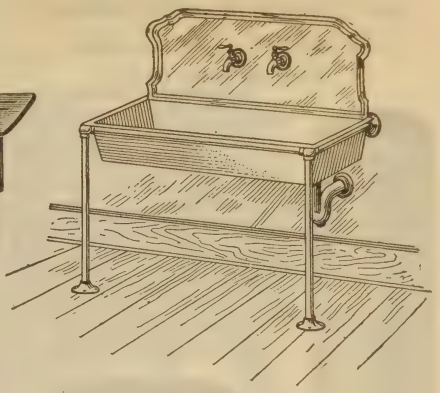
No. K50.

ENAMELED STEEL PANTRY SINK

The above Pantry Sink is equipped with a plug strainer and can be filled with water and the dishes washed in the sink itself, and then the water let out. We furnish the sink, the N. P. bibbs for hot and cold water, the sink back, two pair of brackets, and the lead trap. *We do not furnish the wooden frame or drain boards.*

Price outfit complete as listed above.

Size.	White Inside, Blue Outside.	Gray Enameled Inside and Outside.	Blue Enameled Inside and Outside.
14x20	$6 00	$5 50	$5 25
16x20	6 50	6 00	5 75
16x24	6 75	6 25	6 00
18x24	7 00	6 50	6 25
18x30	7 50	7 00	6 75
18x36	8 00	7 50	7 25



No. K51.

Consists of enameled Steel Sink and Back, with Sink Stand made of ¾-inch iron pipe, with fittings to fasten to wall and floor as shown in illustration. This Sink Stand is very rigid, and absolutely sanitary. The outfit is furnished complete with finished brass Fuller flanged bibbs for hot and cold water, sink strainer, collar and bolts, lead "P" trap to wall, screws etc.

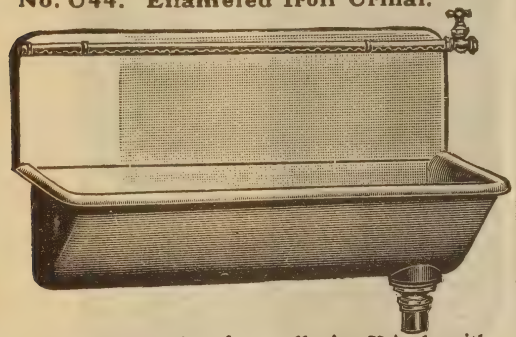
Prices.

Sizes.	Blue.	Agate.	White.
16x24	$5 25	$5 50	$6 25
18x30	5 50	5 75	6 50
18x36	5 60	5 90	6 75
20x30	5 60	5 90	6 75
20x36	5 75	6 10	7 00
20x40	6 00	6 25	7 25

Price of Sink Stands only as shown above.

For 16x24 sink	$1 25
For 18x24 sink	1 25
For 18x30 sink	1 50
For 20x30 sink	1 60
For 18x36 sink	1 75
For 20x36 sink	1 85
For 20x40 sink	2 00

No. U44. Enameled Iron Urinal.



No. U44. Cast iron roll rim Urinal, with roll rim back, all white porcelain enameled, brass bee-hive strainer and tailpiece, perforated brass flush pipe with loose key stop.

24 inches long	price, $ 9 00	48 inches long	price, $15 00
30 inches long	price, 9 90	60 inches long	price, 20 40
36 inches long	price, 11 40	72 inches long	price, 24 75
42 inches long	price, 13 50		

Slop Sinks.

No. K58. Cast iron flat rim Slop Sink, on trap standard with clean-out and brass vent connection. Sink as above with 2 brass bibbs.

Size	Painted	Enam'ld.
16x16x10	$5 25	$7 00
16x20x12	5 75	7 50
20x24x12	6 75	

No. K59. Slop Siuk only, without standard or bibbs.

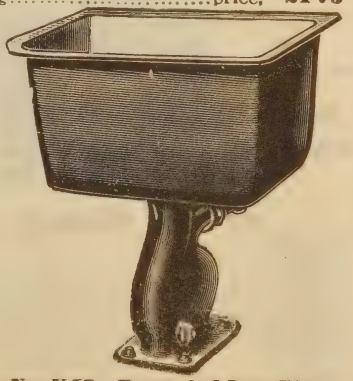
Size	Painted	Enam'ld.
16x16x10	$1 35	$3 75
14x20x12	1 75	4 25
16x20x12	2 00	5 00
20x24x12	2 50	6 00

Cast Iron Slop Sinks.

Painted

No. 323. 12x12x6. Combined slop sink and bell trap, strainer, etc. Each $1 00

20x24x12	Ditto, each		2 25
15x15x10½	"	"	1 50
14x20x12	"	"	1 60
16x16x10	"	"	1 25
16x16x9	"	"	1 25



No. K58. Enameled Iron Slop Sink.

GALVANIZED RANGE BOILERS

Brand New. 200 lb. Test.

Prices for Boiler Only.

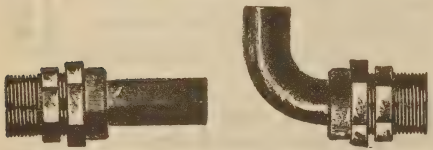
Capacity Gals.	Size.	Price.
24	4 x12 in.	$ 5.00
30	5 x12 in.	5.00
35	5 x13 in.	7.00
40	5 x14 in.	7.00
47	4½x16 in.	11.00
52	5 x16 in.	11.40
63	6 x16 in.	17.75
66	5 x18 in.	17.75
79	6 x18 in.	20.50
82	5 x20 in.	22.60
100	6 x20 in.	28.70

BOILER STANDS.

For boilers up to 30 gallons. Each	$0.45
For boilers up to 35 gallons. Each	.55
For boilers up to 40 gallons. Each	.60
For boilers 16 inches in daimeter. Each	.75
For boilers 18 inches in diameter. Each	1.15
For boilers 20 inches in diameter. Each	1.50

BOILER COUPLINGS.

For Lead Pipe.



No. 1900. Per set of four $1.25

For Iron Pipe.

No. 1901. Per set of four $1.25

Boiler Tube.

No. 1902. ½ inch, price, each $0.20

PRICES ON COMPLETE BOILERS.

Including Galvanized Range Boilers, Boiler Stand, Boiler Couplings and Tube. Brand New.

200 lb. Test. Guaranteed.

24 gallon	$ 6.00
30 gallon	6.00
35 gallon	8.50
40 gallon	8.50
47 gallon	13.00
52 gallon	13.40
63 gallon	17.25
66 gallon	20.00
79 gallon	22.75
82 gallon	24.75
100 gallon	30.95

LEAD PIPE CONNECTION.

From Boiler to Range.

No. 1903. Lead pipe with a ¾-inch brass union wiped on one end and a ¾-inch brass nipple wiped on the other.

By using these lead pipe boiler connections the job of connecting a range boiler is much simplified. Use one on the flow from bottom of boiler to lower opening of water front, and one from upper opening in water front to the opening in the side of the boiler. The lead pipe will easily bend and the balance of the distance can be filled in with ¾-inch iron pipe. Price per set of two $3.00

GASOLINE WATER HEATER

This Water Heater has a very neat appearance, very durable in construction and ready at all times for service.

Heater G. W. No. 66 is a Galvanized Iron Heater with double burner and circulating copper coil. Reservoir holds 15 gallons of water and is so arranged that when the burners are lighted the water circulates through the coil and over the burners and as it is heated rises back into the reservoir above. The water is drawn off through the faucet and as the faucet is directly connected with the heating coil it is practically an instantaneous heater. It is so made that all the water cannot be drawn out and consequently the coil and the bottom cannot be burned out. Will heat the full reservoir of 15 gallons boiling hot in about 20 minutes. Price, crated for shipment ... $12.50

Gasoline Water Heater G. W. No. 67. Is a Nickel Plated Double Jacketed Heater with a single burner and reservoir. Reservoir holds 10 gallons. The fire blazes directly against a copper plate through which water circulates the same as in G. W. No. 66 Heater. The double jacket tends to hold the heat of the water. It is a very handsome fixture and in general construction is much like G. W. No. 66.

Price complete, crated for shipment $12.50

WATER FRONTS.

We can furnish Water Fronts for any range made today. This cut shows the style of Water Fronts which are used in steel ranges without reservoir. It is made of cast iron, hollow on the inside with two openings in the end, tapped so as to take iron pipe connection to the circulating range boiler. The water is heated by passing through the water front which is placed in front of the fire box of the range. Price of all ordinary patterns of Water Fronts for family size ranges is $5.00. In ordering specify the maker's name of your range, the number of the range and the size.

ECONOMY STONEWARE LAUNDRY TUBS

With patent wringer guards, patent metallic rims, brass plugs, strainers, overflows and waste connections. Three part tub with 6-in. high back, one entire piece.

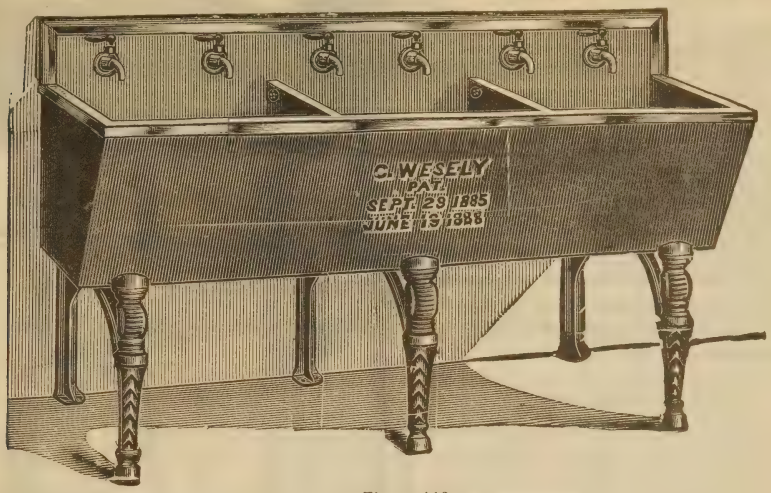


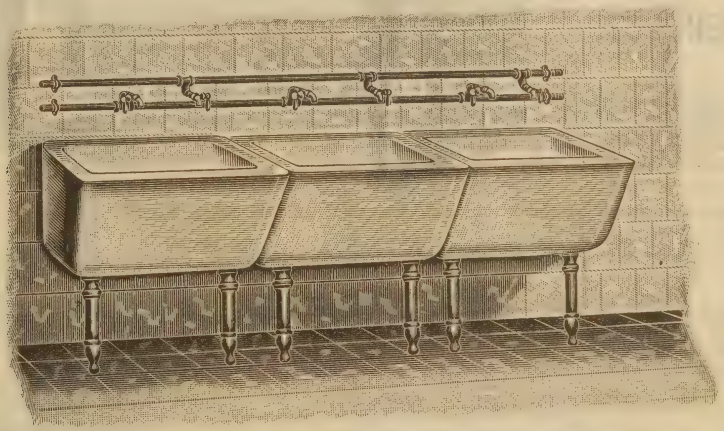
Figure 110

GUARANTEED AGAINST LEAKAGE FOR TEN YEARS.

Price includes iron legs but not the faucets.

We will also furnish these three part laundry tubs without the 6-inch high back (see page 65 figure 3) as follows:

No.	Length, Inches.	Width, Inches.	Depth, Inches.	Price, Each.	No.	Length, Inches.	Width, Inches.	Depth, Inches.	Price, Each.
110	72	24	16	**$13.50**	10	72	24	16	**$11.75**
111	80	24	16	**17.50**	11	80	24	16	**13.10**
112	90	24	16	**19.00**	12	90	24	16	**13.75**



SOLID PORCELAIN LAUNDRY TRAYS

Glazed Single Trays.

Our Solid Porcelain Laundry Trays are Light Buff in color, glazed on front and two sides, and are white glazed on inside and over the top of rim. These are flat rim. They are heavy, durable tubs, and are furnished complete with two cast iron legs with frame to fasten to wall, with laundry tray plugs and rubber stopper, with a pair of laundry tray bibbs. They can be set up in a battery of two or more tubs as desired. These tubs are Class "B" tubs, that is, there is some little defect either in the shape or in the glazing, but nothing that will interfere a particle with the usefulness of the tub.

Price, complete, as described, each.....$7.50

ECONOMY STONEWARE LAUNDRY TUBS.

We are in a position to promptly fill your wants on anything in the line of the "Wesely" patented, improved stoneware laundry tub.

The best imported Portland cement and crushed granite is used in construction. They are molded and made into one solid piece, with rounded inside corners, that can be easily kept clean. They are stronger and harder than any made from stone, and are strictly sanitary and free from leakage, having no joints or seams for dirt or vermin to lodge into. The strainers, plugs and waste connections are cast in the tub when being made. The patent metallic rim, which is also cast in the tub, adds to their appearance, and at the same time protects the edges.

One part laundry tub, with patent metallic rings, brass plugs and waste connections. Tub is complete with 2 iron legs. Price is without faucets.

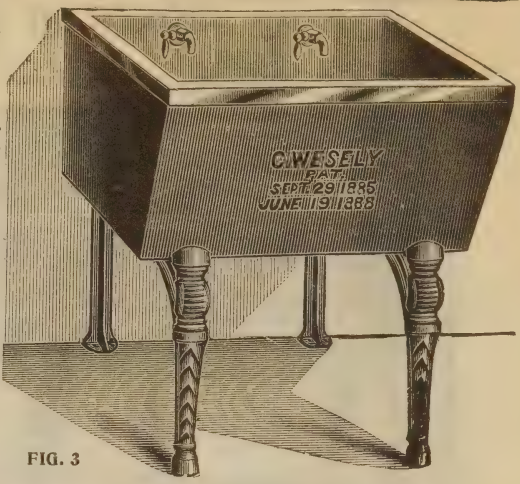
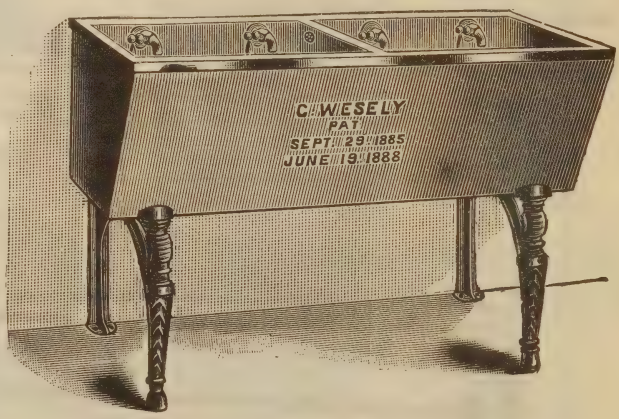


FIG. 3

NO.	LENGTH, IN.	WIDTH, IN.	DEPTH, IN.	PRICE, EACH.
3	25	24	16	$5.00
3	27	24	16	5.50
4	31	24	16	6.00

THESE TUBS ABSOLUTELY NEW AND PERFECT.

Two parts laundry tub with patent metallic rims, brass plugs and waste connection. Tub is complete with 2 iron legs. Price does not include faucets.



NO.	LENGTH, IN.	WIDTH, IN.	DEPTH, IN.	PRICE, EACH.
6	48	24	16	$7.40
7	54	24	16	8.10
8	60	24	16	8.40

We will furnish this 2 part tub, with 6-inch high back, all made in one solid piece and with patent Wringer Guard as follows:

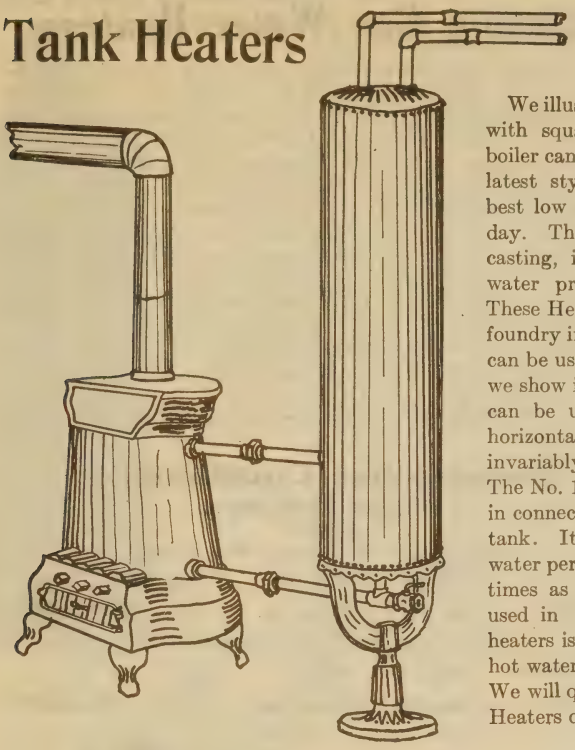
NO.	LENGTH, IN.	WIDTH, IN.	DEPTH, IN.	PRICE, EACH.
106	48	24	16	$10.00
107	54	24	16	11.70
108	60	24	16	12.50

BIBBS AND TRAPS.

½-inch Fuller bibbs for this laundry tray. Per pair.....$1.80
1½-inch short lead "S" traps for laundry trays. Each..... .90

MAKE US A COMPLETE LIST OF YOUR BUILDING WANTS.

Tank Heaters



We illustrate here our New Tank Heater with square top so that irons or wash boiler can be placed thereon. It has the latest style revolving grate, and is the best low priced Tank Heater made today. The water jacket is made in one casting, is heavy, and will stand any water pressure up to 100 or 125 lbs. These Heaters are shipped direct from our foundry in Western Pennsylvania. They can be used with vertical range boilers, as we show in the above illustration, or they can be used with tanks that are placed horizontally. The largest sizes are almost invariably used with horizontal tanks. The No. 17 size Tank Heater can be used in connection with a 400 or 500 gallon tank. It will heat about 250 gallons of water per hour, and in hotels where sometimes as much as 500 gallons of water is used in a single hour, if one of these heaters is used, it will store up that much hot water for the time when it is needed. We will quote you on large sizes of Tank Heaters on application.

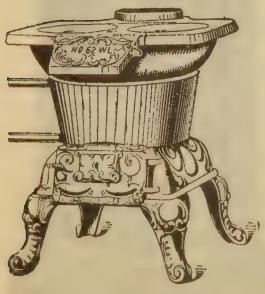
Dimensions and Prices of Heaters

FOLLOWING PRICES ARE FOR HEATERS ONLY

No.	Size of Top for Irons	Diameter of Fire Pot	Size of Tapping	Depth of Fire Pot	Gallons Capacity	Price
19	14x24	10 in.	1 in.	10 in.	50 to 75	$17 50

No.	Size of Fire Pot	Dep. of Fire Pot	Size of Smoke Pipe	Tank Cap. Gal.	Size of Tapping	Price
13	10	11	6 in.	100	1 in.	$20 00
14	10	13	6 in.	125	1 in.	22 50
15	13	12	7 in.	150	1½ in.	25 00
16	13	15	7 in.	200	1½ in.	27 50
17	13	18	7 in.	250	1½ in.	33 00

Rex Jewel Water Heating Laundry Stove



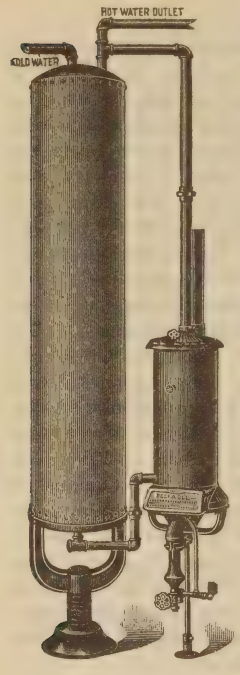
No. 62 W.

This is a very low price Laundry Stove Tank Heater.

It will heat a 40-gallon range boiler, and we recommend it where it is desirable to use a coal stove for heating water for laundry purposes, and is especially desirable in connection with a gas range. It has a flat top 14 x 21 inches. It is large enough for a 9-inch wash boiler, and will burn hard or soft coal or coke. Has revolving grates.

Price, complete with shaker and stove lifter..... **$12.00**

Reliable Circulating Gas Water Heaters.



Our Reliable Gas Circulating Water Heater and Gasoline Heater we consider the best on the market. We do not claim that they are the cheapest but that they are absolutely the best. They can be connected to any kitchen range boiler as shown in the cuts on this page without interfering with the present kichen range or furnace connections. The floor space they ocupy is only eight inches in diameter. They are available for heating water instantly day or night and the advantage of this kind of heater is that it puts the hot water right in your circulating pipe and the water is available in the bath tub lavatory, on the kitchen sink or in the laundry tubs.

The cost of operation is very slight. The heaters are made with alternating solid sections and rings as you will note in the sectional view, so arranged that water constantly flows from the circumference to the center, from the center to the circumference, and back to the center again, as it works its way from the bottom to the top of the heater.

The No. 9 and No. 10 have polished steel casings. The No. 7 and No. 8 have cast iron casings. These casings are so arranged that nearly all heat is kept in the heater. The cast iron has no particular advantage for heating qualities but is, perhaps, a little more endurable.

The burner is a very powerful heat producer. It has a removable loose cone so that it can be easily and thoroughly cleaned. It is also fitted with an adjustable valve enabling the simple regulation of burner for any pressure of gas.

We furnish these for either natural or manufactured gas. The casing around the coil is removable so that it is a very easy matter to clean the coil thoroughly.

Reliable Gas Circulating Water Heaters.

SIZES

Water Heater with Polished Steel Casings.

Manufactured Gas	Natural Gas	Height of Heater	Diameter Casing	Price
No. 09	**No.10**	**22 1-2 in.**	**8 in.**	**$10.00**

Water Heater with Cast Iron Casings.

Manufactured Gas	Natual Gas.	Height of Heater	Diameter Casings	Price
No. 07	**No. 08**	**20 1-2 in.**	**7 1-2**	**$12.00**

Reliable Circulating Gasoline Water Heaters

These heaters are made exactly like the gas heaters except that they are equipped with a tank for gasoline and arranged with the best known type of gasoline vaper burner. A test with a 30 gallon boiler filled with water at 50 degrees, gave the following results.

12	minutes	raised	to	164 degrees.
30	"	"	"	184 "
45	"	"	"	200 "
60	"	"	"	218 "

The gasoline heaters are made with the polished steel casings only.

	Height of Heater	Diameter of Steel Casing	Price
No. 5.	23 in.	7½ in.	$18.75

These heaters are not to be confused with the nickel plated instantaneous heaters which produce boiling hot water as fast as it flows through the heater.

Air Pressure Water Supply Systems For Country Homes.

INSTANTANEOUS WATER HEATERS

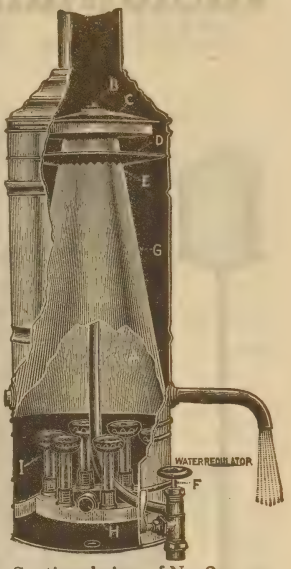
For Artificial or Natural Gas

No. 2.

The Instantaneous Water Heater is certainly an ideal appliance to obtain hot water quickly at any time of day or night. We carry a complete line of Instantaneous Heaters for natural or artificial gas and for gasoline.

The No. 2 Instantaneous Gas Heater shown above will heat a flowing stream of water at the rate of 2½ gallons a minute to 120 degrees Fahrenheit, or 6 cubic feet of gas will heat 30 gallons of water in this to a temperature of 120 degrees. So this makes one half cent's worth of gas for sufficient hot water for a bath. These Heaters produce better and quicker results than any other Heater made. They are the ideal thing for a home or any public bath room, as you can furnish any number of baths one right after the other without waiting for water to heat.

In the sectional view you will note the patent spray top indicated with letter "B." Water comes up through the supply pipe "A," and is sprayed through the spray top "B," carried to the outside of the heater over the cone "C," falls on the inverted cone "D," below this and then trickles down the intensely hot plate "E" to the outlet. With the improved controlling arrangement, it is impossible to turn on the gas and light the fire without turning on the water at the same time. Thus it is impossible to burn out the heater. Size No. 2 is the most popular size that we have.



Sectional view of No. 2.

Price, with shelf and bracket **$23.50**

These heaters have one third more heating surface than any other similar appliance. All heaters are tested twice before shipment.

The No 3 Heater, a trifle smaller than No. 2, will heat 2 gallons of water a minute.
Price, with shelf and bracket **$20.50**

The No. 1 Heater, is a larger size Heater and will heat 3 gallons of water a minute.
Price, with shelf and bracket **$30.00**

No. SX4.

SIMPLEX CIRCULATING GAS WATER HEATER

No. SX4. These Heaters, like the **Reliable,** shown on the other page, are designed to be used in connection with a range boiler and to heat water to store in the range boiler from which it would be piped to the various faucets and fixtures.

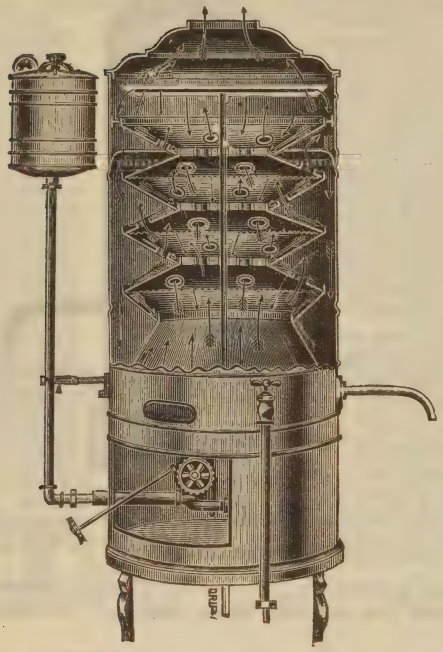
This is a rather smaller heater than the Reliable. It is made with a copper coil inside and with a very powerful burner that will consume about 80 feet of gas per hour and on this basis it would raise the temperature of a 30 gallon range boiler from 50 degrees to 110 degrees in 45 minutes, or from 50 degrees to 140 degrees in an hour. This heater is tested to 200 lbs. pressure and is guaranteed to stand 125 lbs. water pressure.

When this heater is connected as shown in the illustration, to the top of the range boiler, you can get hot water readily, before the entire range boiler is heated as it will deliver a couple of gallons of scalding hot water five minutes after the burner is lighted. The heater has a black sheet iron casing and is plainly and substantially built.

Net weight of the heater 18 lbs. Shipping weight, 26 lbs. Size of heater 6 inches in diameter by 22 inches high.
Price **$6.25**

Instantaneous Water Heaters.

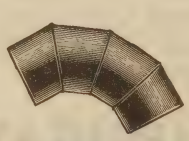
For Gasoline.



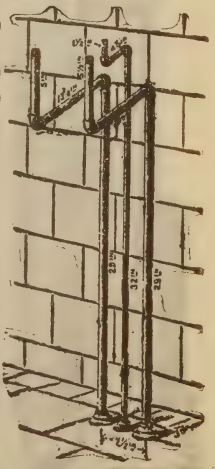
This illustration shows the Instantaneous Heater with Gasoline Attachment. The Heater heats water on the same principle as shown in our gas heaters. It can be connected direct with city water works, or, in the event there is no city water works, can be supplied from an overheated tank.

The dimensions: Diameter, 12 inches; height, 31 inches; shipping weight, 60 lbs. Capacity, 4 gallons per minute.

Price, as shown, $28.75



3-inch N. P. Vent Pipe in 28-inch lengths, per length	$0.50
3-inch Extension Thimble with N. P. flanges on each end, 4 to 8-inch Extension	1.20
3-inch N. P. Elbows	.50
3-inch N. P. Vent Pipe Collars	.35
3-inch Ventilating Hood of galvanized iron, to be used where vent pipe terminates outside, to prevent down draft, each	1.00



Water and Gas Supply Pipes	$3.60
N. P. ½-inch Outlet Pipes	2.80
N. P. ⅜-inch Drip Pipes	.85
N. P. ½-inch Elbows	.35
N. P. ½-inch Unions	.50
N. P. ½-inch Seamless Brass Tubing, per foot	.45

Above Heater Just the Thing for Public Bath Room.

Marble Tile and Slabs.

No. AH 10. 5,000 square feet 12x12 Marble Floor Tile, consisting of white Italian marble, black marble and red Tennessee marble. We can make up floors from this in alternate blocks of white and black and white and red, or in the proportion of one block of red to four of white; good as new; redressed, refinished and repolished.
Per square foot.....**$0.35**

No. AH 11. 3,000 square feet White Italian Marble Wainscoting; some 34 inches high, some 38 inches high and some 6 to 8 feet high. This Wainsocting will be repolished and blocks trimmed to fit your space, according to plans, at **60c** per square foot in 5 feet or less in height, and **$1.00** per square foot for over 5 feet in height.

No. AH 12. 800 lineal feet White Italian Marble Base-board, 4 inches high by ⅞-inch thick.
Price, per lineal foot.....**$0.25**

No. AH 13. 1,000 lineal feet White Italian Marble Base-board, 5 inches high.
Per lineal foot.....**$0.25**

No. AH 14. 1,000 lineal feet White Italian Marble Base-board, 6 inches high.
Per lineal foot.....**$0.35**

No. AH 15. 500 lineal feet White Italian Marble Base-board, 8 inches high.
Per lineal foot.....**$0.40**

No. AH 17. 1,000 square feet English Clay Floor Tile, straw color, size 3x3 inches.
Per square foot.....**$0.16**

Item No. AH 18. 600 square feet second-hand Italian and Tennessee marble tile. Size, 9x9 and 10x10 inches. White and black. Finished on one side.
Price, per square foot.....**$0.35**

Item No. C. 30 second-hand marble lavatory slabs, without backs, in excellent condition. These are for 14 and 15-inch round and 14x17-inch oval bowls. Ranging in size from 20 to 24 up to 20x36 inches.
Price, each.....**$2.00**

Item No. D. 500 feet White Italian Marble wainscoting, 5 inches wide, ¾-inch thick. In first class condition. Second-hand.
Price, per lineal foot.....**$0.15**

Item No. E. 100 second-hand Italian Marble Slabs with backs, ranging in size from 20 to 24 to 24x48 inches, and from 1¼ to 1½ inches thick. These are in good condition, the defects are stains without cracks. They are for 14, 15 and 16-inch round basins, and 14x17 to 15x19-inch oval basins.
Price, each.....**$2.50**

Item No. F. 10 Tennessee quarter circle corner slabs for 14x17-inch basins. They are 24x24 inches. Complete with 12-inch backs, 1¼ inches thick. They are in excellent condition, no cracks and no stains. Either 1 or 2-cock holes.
Price, each.....**$3.00**

Item No. G. 14 quarter circle Italian Marble Corner Slabs. Complete with backs, for 14-inch round and 14x17-inch oval basins, ranging from 20x20 to 24x24 inches. The backs from 8 to 12 inches high. Second-hand. The defects are stains.
Price, each.....**$2.25**

Item No. H. 6 mantel tops of Tennessee Marble, 78 inches long, 16 inches wide, 1⅛ inches thick.
Price, each.....**$4.00**

ELECTRIC SWITCH BOARD SLABS.

No. LM 29. We have a large stock of slate slabs. The slabs are about 1 inch thick, and we get these out in almost any size required. Our stock comprises slabs in sizes about as follows: 24x24 inches; 20 inches by 5 feet; 24 inches by 5 feet; 30 inches by 5 feet.
Price of slabs in our stock sizes, per sq. foot..**$0.25**
Price of slabs cut to measure on application.

ROADWAY BOXES.

No. LM 26. Round head extension valve boxes for water or gas. Diameter of shaft, 5¼ inches, from 3 to 4 feet extension.
Price, each.....**$2.00**

WATERING TROUGHS.

No. LM 27. 25 cast iron bath tubs, suitable for watering troughs. These bath tubs either through a broken rim or because the enamel is nearly all chipped off are not suitable for use as bath tubs, but make first class watering troughs. We will furnish these with waste plug in the bottom so that they can be well drained, and an overflow cover to cover the overflow opening near the top.
Price, 4½-foot tub.....**$4.00**
Price, 5-foot tub.....**4.50**
Price, 5½-foot tub.....**5.00**

SHOP WASH SINKS.

No. LM 28. These consist of a large sized sink with four-legged stand made of pipe and fittings and floor flanges, so that it would stand securely and evenly on the floor with a pipe coming up over the top of the sink, and with two faucets to fit into this, with waste plug strainer so that the sink can carry three to four inches of water in it, with trap complete to the floor.
Size, 20x36.....**$6.50**
Size, 20x40.....**7.25**

APPROXIMATE WEIGHT OF SOIL PIPE AND FITTINGS.

Standard. Size, Inches	2	3	4	5	6
Pipe, lbs. per length	17½	22½	32½	40	50
Quarter-Bend, lbs. each	4	5½	8	10	14½
Sixth Bend, lbs. each	3	4⅜	6	8	11
Eight Bend, lbs. each	3	4¾	6	8	11
T Branch, lbs. each	4	8	10	15	20
Crosses, lbs. each	5	10	12	16	24
Y Branch, lbs. each	5	9	13	18	25
Half Y Branch, lbs. each	4½	6½	10	14	16
Double Y Branch, lbs.ea.	8	11	18	26	37
Double Hubs, lbs. each	3	4	6	8	10
Straight Sleeve, lbs. each	2½	4	5	6	7
Traps, lbs. each	5½	10	19	26	35
Reducers, lbs. each		3	4	6	8

Offsets....2x8, 5 lbs.; 3x8, 8 lbs.; 4x12, 15 lbs.; 5x12, 20 lbs.; 6x8, 22 lbs.

Extra Heavy. Size, In.	2	3	4	5	6
Pipe, lbs. per length	27½	47½	65	85	100
Quarter Bend, lbs. each	6	8	12	15	20
Sixth Bend, lbs. each	4½	6½	9½	12	16
Eight Bend, lbs. each	4½	6½	9½	12	16
T Branch, lbs. each	7	13	20	25	34
Crosses, lbs. each	10	20	24	32	48
Y Branch, lbs. each	10	15	25	32	45
Half Y Branch, lbs. each	9	13	18	24	36
Double Y Branch, lbs.ea.	12	20	32	42	60
Double Hubs, lbs. each	4½	7	8	11	14
Straight Sleeve, lbs. each	4	6	7	9	10
Traps, lbs. each	9	18	28	45	68
Reducers, lbs. each		4	6	8	11

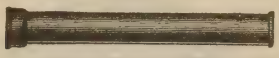
Offsets.....2x8, 9 lbs.; 3x8, 15 lbs.; 4x12, 23 lbs.; 5x12, 30 lbs.; 6x8, 38 lbs.

NOTE THE LOW PRICES ON WIRE QUOTED ON ANOTHER PAGE

SOIL PIPE AND FITTINGS

ALL BRAND NEW.

SOIL PIPE FIVE FOOT LENGTHS.



Single Hub Soil Pipe.

Double Hub Soil Pipe.

Size Inches	2	3	4	5	6
Stan. S'le Hub, per l'gth,	.54	.72	.90	$1.31	$1.53
Ex. H'vy " " " "	.72	1.26	1.44	2.07	2.34
Stan. D'ble " " "	.65	.81	.99	1.53	1.76
Ex. H'vy " " " "	.77	1.35	1.58	2.25	2.48

QUARTER BENDS.

No. 1. Quarter Bend.

No. 10. Quarter Bend, with 2 inch heel inlet.

No. 2. Quarter Bend, with 2 in. side outlet, either right or left side.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 1 Standard	$0.16	$0.25	$0.32	$0.60	$0.80
No. 1 Extra Heavy	.20	.38	.46	.80	1.10
No. 2 Standard	.56	.66	.78	1.10	1.20
No. 2 Extra Heavy	.60	.80	.85	1.20	1.53
No. 10 Standard	.36	.42	.54	.60	.68
No. 10 Extra Heavy	.40	.58	.66	.74	.90

1-6th BENDS. No. 11.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 11 Standard	$0.16	$0.25	$0.32	$0.60	$0.80
No. 11 Extra Heavy	.20	.38	.46	.80	1.10

1-8th BENDS. No. 12.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 12 Standard	$0.16	$0.25	$0.32	$0.60	$0.80
No. 12 Extra Heavy	.20	.38	.46	.80	1.10

"T" BRANCHES.

No. 14. T Branch.

No. 15. With 2-in. Side Inlet. (Right or Left.)

No. 16. Tapped. (1½ or 2 in.)

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 14 Standard	$0.24	$0.40	$0.56	$0.80	$1.16
No. 14 Extra Heavy	.32	.56	.72	1.16	1.56
No. 15 Standard			.96	1.20	1.56
No. 15 Extra Heavy			1.16	1.56	1.96
No. 16 Standard	.56	.62	.80	....	....
No. 16 Extra Heavy	.62	.80	.94	....	....

SANITARY T BRANCHES.

No. 3. Sanitary T Branch.

No. 4. Sanitary T Branch, with 2-in. side inlet, right or left.

No. 5. Sanitary Branch, tapped for iron pipe.

	2x2	3x3 to 3x2	4x4 to 4x2	5x5 to 5x2	6x6 to 6x2
No. 3 Standard	$0.28	$0.40	$0.56	$0.80	$1.20
No. 3 Extra Heavy	.32	.56	.72	1.15	1.60
No. 4 Standard	.44	.52	.96	1.20	1.10
No. 4 Extra Heavy	.52	.70	1.15	1.56	1.60
No. 5 Standard	.54	.62	.80	....	....
No. 5 Extra Heavy	.62	.80	.94	....	....

"Y" BRANCHES.

No. 17. "Y" Branch.

No. 18. ½ "Y" Branch.

No. 19. "Y" Branch with 2 in. Side Inlet.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 17 Standard	$0.24	$0.44	$0.60	$0.84	$1.20
No. 17 Extra Heavy	.36	.60	.76	1.20	1.60
No. 18 Standard	.24	.44	.60	.84	1.20
No. 18 Extra Heavy	.36	.60	.76	1.20	1.60
No. 19 Standard	....	....	1.00	1.24	1.60
No. 19 Extra Heavy	....	....	1.16	1.60	2.00

DOUBLE "Y" BRANCHES.

No. 20. Double "Y" Branch

No. 21. Double ½ "Y" Branch.

No. 22. Double "Y" Branch with 2 in. Side Inlet.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 20 Standard	$0.48	$0.70	$0.90	$1.26	$1.64
No. 20 Extra Heavy	.60	.90	1.20	1.70	2.20
No. 21 Standard	.48	.70	.90	1.26	1.64
No. 21 Extra Heavy	.60	.90	1.20	1.70	2.20
No. 22 Standard	....	....	1.30	1.60	2.04
No. 22 Extra Heavy	....	....	1.60	2.10	2.60

CROSSES.

No. 23. Cross.

No. 24. Sanitary Cross.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 23 Standard	$0.40	$0.60	$0.72	$1.08	$1.40
No. 23 Extra Heavy	.50	.76	.90	1.40	1.80
No. 24 Standard	.48	.70	.90	1.26	1.60
No. 24 Extra Heavy,	.60	.90	1.20	1.70	2.24

For Weights See Page 140.

SOIL PIPE FITTINGS

CROSSES—TAPPED.

No. 25. Cross—Tapped.

No. 26. Sanitary Cross—Tapped.

	2 in.	3 in.	4 in.
No. 25 Standard	$0.60	$0.90	$1.04
No. 25 Extra Heavy	.80	1.10	1.20
No. 26 Standard	.70	1.00	1.20
No. 26 Extra Heavy	.90	1.20	1.30

OFFSETS No. 27.

No. 27.

Size to Offset Inches.	Standard.	Extra Heavy
2 x 4	$0.20	$0.36
2 x 6	.24	.40
2 x 8	.28	.44
2 x 10	.32	.48
2 x 12	.36	.52
2 x 14	.40	.58
2 x 16	.50	.64
3 x 4	.36	.50
3 x 6	.40	.54
3 x 8	.44	.60
3 x 10	.50	.66
3 x 12	.56	.72
4 x 4	.40	.56
4 x 6	.46	.64
4 x 8	.52	.72

Size to Offset Inches.	Standard.	Extra Heavy
4 x 10	$0.58	$0.80
4 x 12	.64	.90
4 x 14	.72	1.00
4 x 16	.80	1.10
5 x 4	.68	.90
5 x 6	.76	1.00
5 x 8	.84	1.10
5 x 12	1.00	1.30
5 x 16	1.20	1.50
6 x 4	.80	1.20
6 x 6	.90	1.30
6 x 8	1.00	1.40
6 x 10	1.10	1.50
6 x 12	1.20	1.60

OFFSETS No. 28.

With 2 inch Inlets.

Size to Offset, Inches.	Standard.	Extra Heavy.
4 x 4	$0.60	$0.76
4 x 6	.66	.84
4 x 8	.70	.92
4 x 10	.78	1.00
4 x 12	.84	1.10
4 x 14	.92	1.20
4 x 16	1.00	1.30

VENTILATING BRANCHES.

No. 29. For Calking.

No. 30. Tapped 1¼, 1½ or 2 in.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 29 Standard	$0.32	$0.50	$0.60	$0.90	$1.00
No. 29 Extra Heavy	.50	.70	.80	1.20	1.60
No. 30 Standard	.60	.70	.90	1.10	
No. 30 Extra Heavy	.80	.90	1.10	1.40	

SHORT INCREASERS.

No. 31. For Calking.

No. 32. Tapped.

	Standard.	Extra Heavy.
2 to 3 inches	$0.28	$0.40
2 to 4 inches	.36	.50
2 to 5 inches	.46	.70
3 to 4 inches	.36	.50
3 to 5 inches	.46	.70
4 to 5 inches	.46	.70
4 to 6 inches	.50	.90
5 to 6 inches	.50	.90

No. 32. Tapped.	Standard.	Extra Heavy.
1½ to 4 inches	$0.56	$0.70
2 to 4 inches	.60	.74
2 to 5 inches	.70	.94
3 to 5 inches	.80	1.04

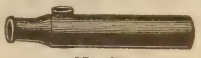
LONG INCREASERS.

No. 33. Plain, For Calking.

	Standard.	Extra Heavy.
2 x 4—24 inches long	$0.80	$1.00
3 x 4—24 inches long	.84	1.04
4 x 5—30 inches long	1.40	1.70
5 x 6—30 inches long	1.90	2.20

No. 34—Plain Tapped.

	Standard.	Extra Heavy.
1½ x 4—24 inches long	$0.80	$1.00
2 x 4—24 inches long	.84	1.04

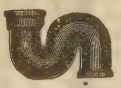


No. 35. For Calking—tapped on side.

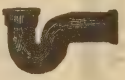
	Standard.	Extra Heavy
2 x 4—24 in. long, 1½ in. tap..,	$1.00	$1.30
3 x 4—24 in. long, 1½ in. tap..,	1.04	1.34
4 x 5—30 in. long, 2 in. tap..,	1.60	2.00
4 x 6—48 in. long, 2 in. tap..,	2.40	
5 x 6—30 in. long, 2 in. tap..,	2.00	2.60

No. 36. For Calking—Hub Inlet on Side.

	Standard.	Extra Heavy.
2 x 4—24 inch, 2 inch Hub	$0.90	$1.20
3 x 4—24 inch, 2 inch Hub	.94	1.24
4 x 5—30 inch, 3 inch Hub	1.60	2.00
4 x 6—48 inch, 3 inch Hub	2.40	2.80
5 x 6—30 inch, 3 inch Hub		2.40
5 x 6—36 inch, 4 inch Hub		2.70

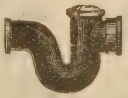


PLAIN TRAPS.

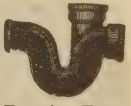


No. 8. S. Trap. No. 9. Half S. Trap.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 8 Standard	$0.32	$0.50	$0.70	$1;40	$1.80
No. 8 Extra Heavy	.50	.80	1.10	1.80	2.40
No. 9 Standard	.32	.50	.70	1.40	1.80
No. 9 Extra Heavy	.50	.80	1.10	1.80	2.40



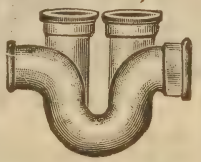
RUNNING TRAPS.



No. 6. Hand-Hole. No. 7. Running Trap, with hub vent.

	2 in.	3 in.	4 in.	5 in.	6 in.
No. 6 Standard	$0.40	$0.60	$0.80	$1.40	$1.60
No. 6 Extra Heavy	.60	.90	1.20	1.60	2.50
No. 7 Standard	.50	.74	1.00	1.60	2.10
No. 7 Extra Heavy	.70	1.05	1.40	2.00	2.70

RUNNING TRAPS With Double Hubs, 4 in. Vents.



No. 37.

	4 in.	5 in.	6 in.
Standard	$1.30	$2.00	$2.40
Extra Heavy	1.70	2.40	3.60

For Weight of different Soil Pipe Fittings see page 134.

SERVICE BOXES

Water Service Boxes, brand new, Morgan or Buffalo pattern.

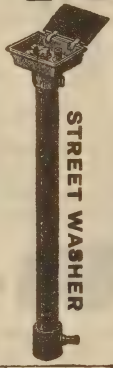
Diameter 2½ inches.

No.	Extension	Price
3	1 ft. 10 in. to 3 ft.	$0 90
4	2 ft. 8 in. to 4 ft.	1 00
5	3 ft. 8 in. to 5 ft.	1 15
5½	3 ft. 8 in. to 5 ft. 6 in.	1 25
6½	4 ft. 8 in. to 6 ft. 6 in.	1 35
7	4 ft. 4 in. to 7 ft.	1 50
8½	4 ft. 8 in. to 8 ft. 6 in.	1 75

BRAND NEW MURDOCK HYDRANTS

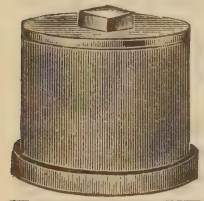
Size of Opening, in.	¾	1
To set 2 ft. in grn'd	$3 10	$4 00
To set 2½ or 3 ft. in ground	3 50	4 50
To set 3½ or 4 ft. in ground	3 75	4 75

BRAND NEW STREET WASHERS



Size of Opening, in.	¾	1
To set 2 ft. in grn'd	$2 50	$3 15
To set 2½ or 3 ft. in ground	3 00	3 50
To set 3½ or 4 ft. in ground	3 35	3 85

CLEAN OUT PLUGS



No. 38 Iron ferrule with brass trap screw.

	Each
2 inch	$0 20
3 "	30
4 "	40

SOIL PIPE RESTS

No. 39	Std.	Extra Heavy
2 inch, each	$0 12	$0 16
3 " "	18	22
4 " "	20	26
5 " "	24	32
6 " "	28	40

DOUBLE HUBS

No. 40	Std.	Extra Heavy
2 inch, each	$0 12	$0 16
3 " "	18	22
4 " "	26	30
5 " "	30	36
6 " "	32	46

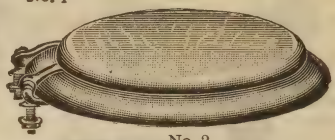
WOODWORK

All new, nicely polished, Natural, Antique or Golden Oak

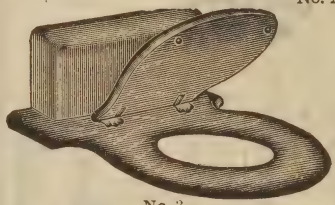
No. 1

No. 1—Seat. For attaching to bowl. Any finish. Price $1 75.

No. 2—Seat. For attaching to bowl. Nickel plated hinges and attachments. Any finish. Price $2 00.

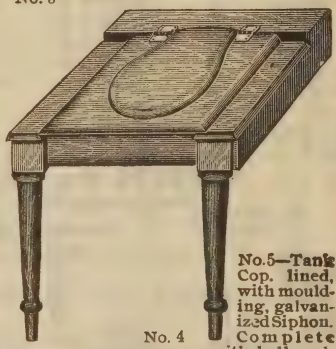


No. 2



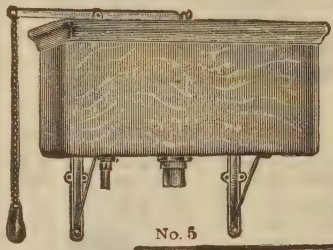
No. 3

No. 3—Seat. Pedestal Seat, for attaching to wall. Any finish. Price $2.25



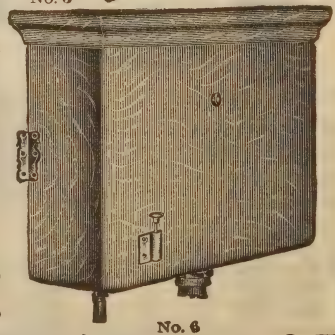
No. 4

No. 4—Seat. All complete. Square pedestal with legs and frame work. Any finish. Price $2 50.



No. 5

No. 5—Tank Cop. lined, with moulding, galvanized Siphon. Complete with ball cock and all trimmings. Either for top or bottom supply. Small size for washout or washdown bowls, ea. $3 50 Large size for Siphon jet bowls, ea. $4 00 Extra for lead lined, each 50c.



No. 6

No. 6—Tank. For low tank combinations. Piano Polish. Round corner, top moulding, copper lined, nickel plated push button action, nickel plated supply pipe and 2 inch connection. Complete with ball cock and all trimmings. Price, ea. $8 00 Extra for lead lined, 0 75

Be Sure to Call and See Us When in Chicago.

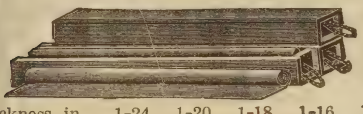
Lead Pipe

We sell our lead pipe practically at cost. The following prices are the prevailing market ones —subject to change.

Prices Are Per Foot in Cents.

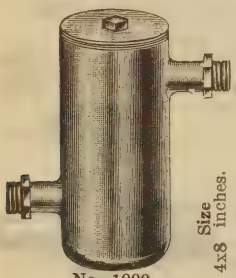
Size	½	5-8	¾	1	1¼	1½	2	4
Acqueduct	..	..	..	..	15	23	23	38
Extra light	..	..	..	..	19	26	30	..
Light	..	..	..	19	23	30	38	..
Medium	..	15	17	25	28	38	53	75
Large	13	19	23	30	35	45	60	..
Extra Strong	19	23	27	36	45	56	68	..

Sheet Lead



Thickness, in...	1-24	1-20	1-18	1-16	1-14
Lbs, per sq. ft..	2½	3	3½	4	4½
Thickness, in.	1-12	1-10	1-9	1-7	9-64	1-6	3-16	⅛
Lbs. per sq. ft,	5	6	7	8	9	10	11	12

Price on above, subject to change. is 9c per lb.



No. 1000

Size 4x8 inches.

BATH TRAPS

Threaded Bath Traps, with trap screw cover, threaded connections for iron pipe. Price, 1¼ in. connections **$2.50**
Price, 1½ in. connections.....**$2.75**
Extra for covers nickel plated each.....**25c**

Regular Short Bends

10 inch outlet No. 1001

Size, in.....	3	4
Price, each.	82c	$1.13

Price Price
Ext'd bends 12 in., outlets 3 in., **$1.04** 4 in., **$1.28**
Ext'd bends 15 in., outlets 3 in., **1.24** 4 in., **1.50**

Long Lead Bends

No. 1002

Size, inches...	1¼	1½	2	3	4
Price, each...	$0.23	$0.38	$0.59	$1.04	$1.46

Lead Running Traps

No. 1003

Size, inches.....	1¼	1½	2
Price, each.....	$0.36	$0.54	$0.85

No. 1004

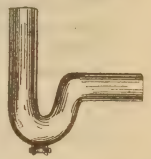
SHORT LEAD "S" TRAPS

Size, inches.....	1¼	1½	2
Price, each.....	$0.44	$0.63	$1.04

Extra for brass solder Nipple (iron pipe thread) wiped on outlet.

Size, inches.....	1¼	1½	2
Additional, each...	$0.75	$0.90	$1.25

LEAD "P" TRAPS

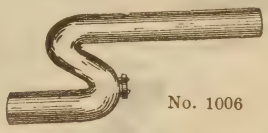


No. 1005

Size, inches.....	1¼	1½	2
Price, each.....	$0.38	$0.56	$0.90

Extra for brass solder Nipple (iron pipe thread) wiped on outlet.

Size, inches.....	1¼	1½	2
Additional, each....	$0.75	$0.90	$1.25



No. 1006

LONG LEAD "S" TRAPS

Size, inches.....	1 1-4	1 1-2	2
Price, each.....	$0.70	$1.02	$1.50

Extra for brass solder Nipple (iron pipe thread) wiped on outlet.

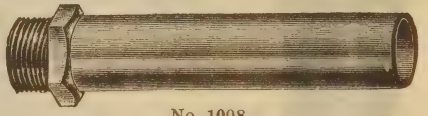
Size, inches.....	1 1-4	1 1-2	2
Additional, each...	$0.75	$0.90	$1.25

COMBINATION LEAD BEND AND FERRULE

4 inch
5½ in. inlet
No. 1007

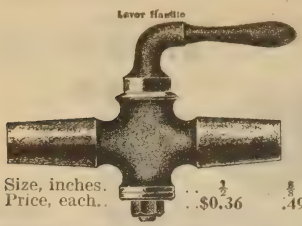
Length of outlet.	Each.
12 inches or less.....	$1.65
13—14—15.....	1.88
16—17—18.....	2.10

Combination Lead and Brass Solder Nipple



No. 1008

Length, in.	4	6	8	10	12	14
Size 1¼	$0.26	$0.30	$0.34	$0.38	$0.41	$0.49
Size 1½	.32	.41	.45	.49	.56	.64
Size 2	.49	.60	.68	.71	.75	.86
Size 4	1.13	1.31	1.46	1.61	1.73	1.95



Lever Handle Brass Stops

For Lead Pipe

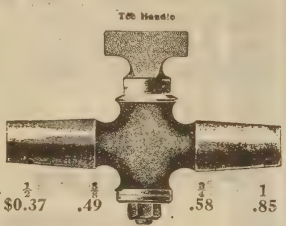
No 943

Size, inches	½	⅝	¾	1
Price, each	$0.36	.49	.58	.84

Tee Handle Brass Stops

For Lead Pipe

No. 944



Size, inches	½	⅝	¾	1
Price, each	$0.37	.49	.58	.85

Lever Handle Brass Stop and Waste

For Lead Pipe

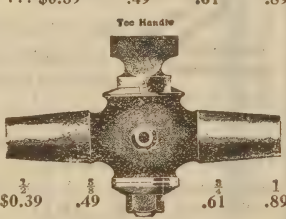
No. 945

Size	½	⅝	¾	1
Price	$0.39	.49	.61	.89

Tee Handle Brass Stop and Waste

For Lead Pipe

No. 945



Size, inches	½	⅝	¾	1
Price, each	$0.39	.49	.61	.89

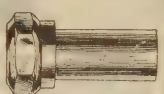
Brass Soldering Nipples

No. 947

Size, inches	⅜	½	⅝	¾	1	1¼	1½	2
Price, each	$0.06	.08	.10	.10	.13	.20	.26	.36

Brass Soldering Unions

No. 948



Size, inches	½	⅝	¾	1	1¼	1½	2
Price, each	$0.10	.14	.14	.18	.25	.35	.53

Brass Ferrules

Used in connecting closet waste pipe to soil pipe.

No. 949

Size, inches	2	3	4
Price, each	$0.15	.23	.35

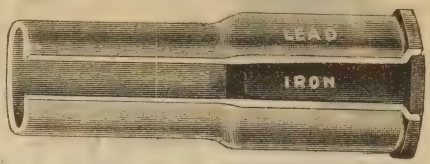
Lead Drum Traps

No. 951

Size, dia., 4 in. ..... Length, 9 in.

Price, each $1.60

Combination Lead Ferrules



No. 950

Length, inches	4	6	8	10	12
Size, inches 1¼x2		.25	.30	.34	.38
" " 2	$0.17	.26	.32	.38	.45
" " 3	.24	.38	.47	.56	.64
" " 4	.30	.49	.56	.75	.83

Gauge Cocks

No. 46. Brand New Compression Gauge Cocks.

Without Stuffing Box

Sizes, inches	Price, each
⅜	$0.44
½	.44
¾	.48

With Stuffing Box

⅜	.44
½	.50
¾	.60

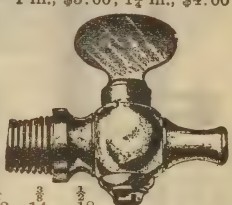
Rain and Well Water Cocks

For Iron Pipe

No. 403.

Size, inches	1	1¼
Price, each	$3.75	$5.00

Price each for lead pipe, 1 in., $3.00; 1¼ in., $4.00



Brass Air Cocks

No. 17. Brand new. Either T or lever handle.

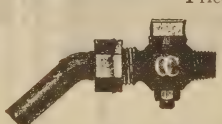
Size, inches	¼	⅜	½
Price, each	$0.11	.12	.14	.18

Compression Urinal Cock

For Lead or Iron Pipe

No. 946

Price, each $0.80



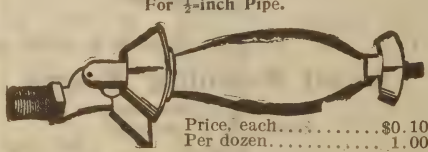
Brass, National Corporation Cocks

No. 40. Finest Grade Brand New.

Size, inches	¼	⅜	½	⅝	¾	1	1¼
Price, each	$0.33	.37	.46	.65	.95	1.00	

BALL-GAUGE COCKS

For ½-inch Pipe.



Price, each $0.10

Per dozen 1.00

STEAM GAUGE COCKS

No. 404.

Size	¼ in
Each	.20

Plumbing Supplies.

FULLER DOUBLE BATH COCK.

Heavy cast brass, handsomely nickel plated.

Price, lead pipe tail piece.....$1.90
Price, iron pipe tail piece.....$2.00

COMPRESSION DOUBLE BATH COCK.

Heavy cast brass, handsomely nickel plated.

Price, lead pipe tail piece.....$1.70
Price, iron pipe tail piece..... 1.75

FULLER BASIN COCKS.

Cast brass, nickel plated. Come in pairs, right and left hand. (Illustration shows right hand).

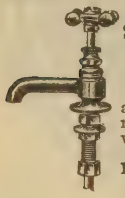
Price, each.....$0.85

COMPRESSION BASIN COCKS.

Regular pattern.

Cast Brass, nickel plated.

Price, each..... $0.55



SEMI-LOW DOWN COMPRESSION BASIN COCKS.

Extra high grade pattern with cross and ball handle, and china index marked "Hot" and "Cold." Made with stuffing box.

Price, each..... $1.25

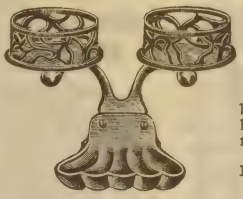
BOSTON PATTERN SELF-CLOSING BASIN COCKS.

Price, each..... $1.50

COMBINATION OVERFLOWS.

Combined nickel plated bath waste and overflow and bath trap. The trap is provided with a cleanout plug and is a safe, sanitary trap. This fitting is made of brass, and is nickel plated. We can furnish for either iron pipe or lead pipe connection.

Price, each..... $3.00



COMBINATION HOLDERS.

Nickel plated cast brass soap dish, tumbler holder and tooth mug holder.

Price, each..... $2.00

ROBE HOOK.

Single Robe Hook. Length 6 inches, made of brass, heavily nickel plated.

Price, each.....$0.30

COAT AND HAT HOOK.

Made of brass, heavily nickel plated.

Price, each.....$0.20

CHAIN STAYS.

Nickel plated brass chain stays, for marble lavatories.

Price, each.....$0.20

BATH OVERFLOW STRAINER.

With ring for chain.

Price, each.....$0.50
The thread on these is standard 1½ inch pipe thread.

BATH WASTE PLUG.

With rubber stopper.

Price, each.....$0.50
The thread on these is standard 1¼ inch pipe thread.

WASTE AND OVERFLOWS.

Nickel plated connected waste and overflow for bathtub.

Price, each.....$1.50

NICKEL PLATED BATH SUPPLIES.

For design, see our style No. 35 bath tub on another page. Made with slip joint coupling. Bottoms threaded for ½ inch iron pipe. Price, per pair..... $1.50

NICKEL PLATED LAVATORY SUPPLIES.

For design, see our style No. 28 marble lavatory, on another page. These supply pipes are made with air chamber, and with slip joint coupling. They are threaded for ⅜ inch pipe. Price, per pair..$2.00

BATH ROOM ACCESSORIES

Shower Bath

No. 300. Brand new portable shower bath. Consisting of a brass nickel plated perforated shower with a substantial wall fastening and braced curtain ring, with superior quality rubber tubing "hold fast" connection to attach to bath cock. Complete in every way. Is designed to be placed above tub when not in use, arranged so curtain can be easily hooked back out of the way.

Price $12.00

Shower Ring

No. 301. Nickel plated brass spray shower ring, 12 inches in diameter, with 5 ft. rubber tubing. Price $1.05

Shampoo Sprinkler

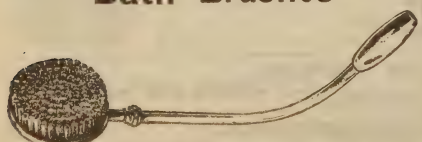
No. 302. Nickel plated brass perforated shampoo sprinkler. Rubber bound with five feet of rubber tubing and hold-fast connection.

Price 3 inch in diameter $0.81
Price 3½ inch in diameter ..... .95
Price 4 inch in diameter 1.10

Bath Thermometer

No. 303. Price 30c

Bath Brushes

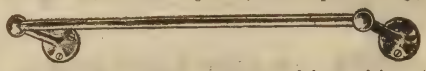


No. 304. Nickel plated bath brush with adjustable handle. Price $4.25

Nickel Plated Towel Bars

Heavily nickel plated brass towel bars.

No.	Length	Width	Bar
305	15 in.	3 in.	⅜-inch, nickel plated... 34c
306	18 in.	3 in.	⅜-inch, nickel plated... 38c
307	24 in.	3 in.	⅜-inch, nickel plated... 47c
308	30 in.	3 in.	⅜-inch, nickel plaeed... 55c
309	36 in.	3 in.	⅜-inch, nickel plated.. 64c



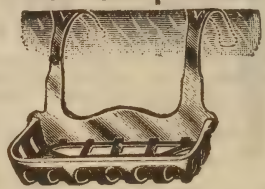
Heavily nickel plated brass towel bars with cast brass posts to hold same 3 inches from wall.

No.	Length	Width	Bar
310	15 in.	3 in.	½-inch, nickel plated.. $0.68
311	18 in.	3 in.	½-inch, nickel plated.. .72
312	24 in.	3 in.	½-inch, nickel plated.. .81
313	30 in.	3 in.	½-inch, nickel plated.. .89
314	36 in.	3 in.	½-inch, nickel plated.. .98
313	42 in.	3 in.	½-inch, nickel plated.. 1.10

Glass Shelf

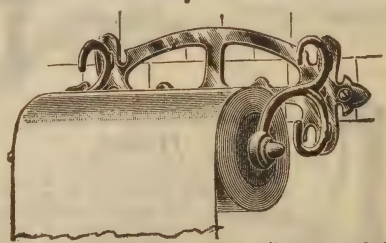
No. 316. Plate glass shelf with N. P. brass brackets. Size of shelf 24x5 inches. Price..... $4.25

Bath Soap Dish



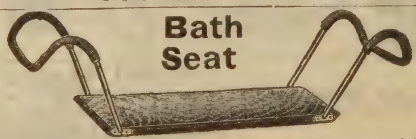
No. 317. Nickel plated brass soap dish for hanging over rim of bath tub. Price..... 85c

Toilet Paper Holder



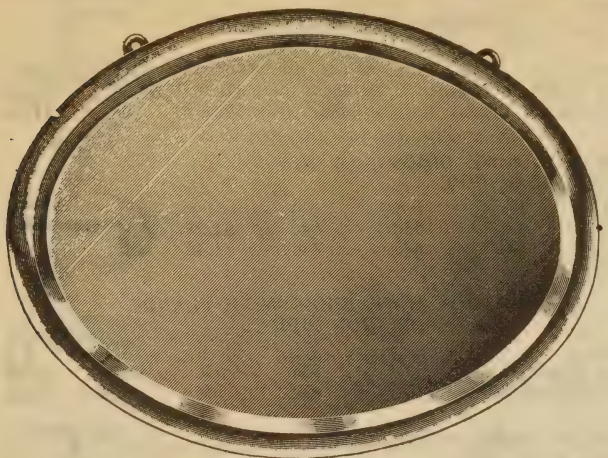
No. 318. Nickel plated brass toilet paper holder for holding paper on rolls. Price each..... 65c

Bath Seat



No. 319 Hard finish oak bath tub seat, with nickel plated adjustable clamps, rubber bound for hanging over edge of bath tub. Price..... 85c

THE ABOVE TRIMMINGS ARE ALL HIGH GRADE AND BRAND NEW



No. 325—Plain Oval Mirror.

No. 330—Beaded Oval Mirror.

Nickel Plated Bath Room Mirrors

Brass frames, heavily nickel plated.

FRENCH PLATE BEVELED MIRRORS, MADE WITH METAL BACKS.

Just the thing for your bath room. The frames will never rust and they will harmonize perfectly with the nickel plate faucets and trimmings on your plumbing fixtures. Made with metal hangers.

Plain Oval Mirrors.

No.	Size (inches)	Price
325	18x24	$6.00
326	16x20	4.25
327	14x17	3.75
328	10x20	3.75

Beaded Oval Mirrors.

No.	Size (inches)	Price
330	18x24	$7.50
331	16x20	5 50
332	14x17	4.75
333	10x20	4.75

Square Beaded Mirrors.

No.	Size (inches)	Price
335	18x24	$8.00
336	16x20	6.00
337	14x17	5.00
338	10x20	5.00

Square Plain Mirror.

Similar to above, but not beaded.

No.	Size (inches)	Price
340	18x24	$6.50
341	16x20	5.00
342	14x17	4.00
343	10x20	4.00

No. 335—Square Beaded Mirror.

Ornamental Frame and Mirror.

No. 345—One size only, 16x20 inches.

Price.....$6.50

We can furnish any of the above mirrors in oxidized metal finish at same price when so specified. Nickel plated will always be sent unless oxydized is specified.

No. 345—Ornamental Frame and Mirror.

No. 919

COMPRESSION PLAIN BIBBS FOR LEAD PIPE

No. 919.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	38c	47c	$0.58	$1.16
Price each, Nickel Plated	48c	57c	.68	$1.26

COMPRESSION HOSE BIBBS FOR LEAD PIPE

No. 920.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	44c	53c	64c	$1.25
Price each, Nickel Plated	54c	63c	74c	1.35

No. 920

No. 921

COMPRESSION HOSE BIBBS WITH FLANGE FOR IRON PIPE

No. 921.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	53c	63c	$0.79	$1.52
Price each, Nickel Plated	63c	73c	.89	1.62

COMPRESSION PLAIN BIBBS WITH FLANGE FOR IRON PIPE

No. 922.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	47c	57c	73c	$1.43
Price each, Nickel Plated	57c	67c	83c	1.53

No. 922

No. 923.

COMPRESSION PLAIN BIBBS WITH FLANGE FOR LEAD PIPE

No. 923.

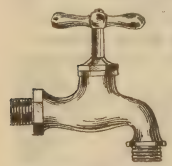
Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	53c	64c	82c	$1.58
Price each, Nickel Plated	63c	74c	92c	1.68

COMPRESSION HOSE BIBBS WITH FLANGE FOR LEAD PIPE

No. 924.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	58c	70c	88c	$1.65
Price each, Nickeled Plated	68c	80c	98c	1.75

No. 924



No. 925

COMPRESSION HOSE BIBBS FOR IRON PIPE

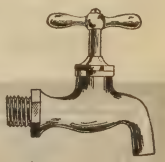
No. 925.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	44c	53c	64c	$1.25
Price each, Nickeled Plated	54c	63c	74c	1.35

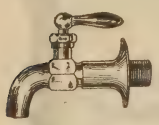
COMPRESSION PLAIN BIBBS FOR IRON PIPE

No. 926.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	38c	47c	58c	$1.16
Price each, Nickeled Plated	48c	57c	68c	1.26



No. 926



No. 927

FULLER PLAIN BIBBS WITH FLANGE FOR IRON PIPE

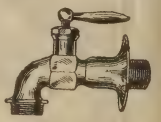
No. 927.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	59c	68c	83c	$1.05
Price each, Nickel Plated	68c	77c	93c	1.15

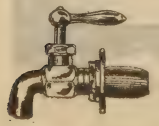
FULLER HOSE BIBBS WITH FLANGE FOR IRON PIPE

No. 928.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	65c	76c	$0.90	$1.35
Price each, Nickeled Plated	75c	86c	1.00	1.45



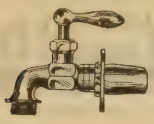
No. 928



FULLER PLAIN BIBBS WITH FLANGE FOR LEAD PIPE

No. 929.

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	60c	70c	84c	$1.26
Price each, Nickeled Plated	70c	80c	94c	1.36



No. 930

FULLER HOSE BIBBS WITH FLANGE FOR LEAD PIPE

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	68c	78c	$0.93	$1.35
Price each, Nickel Plated	78c	88c	1.03	$1.45

FULLER PLAIN BIBBS FOR LEAD PIPE

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	45c	50c	63c	$1.04
Price each, Nickel Plated	55c	60c	73c	1.14

No. 931

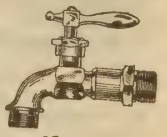
No. 932

FULLER HOSE BIBBS FOR LEAD PIPE

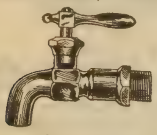
Size, inches	1-2	5-8	3-4	1
Price each, Polished Brass	50c	54c	72c	$1.08
Price each, Nickel Plated	60c	64c	82c	1.18

FULLER HOSE BIBBS FOR IRON PIPE

Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	50c	59c	72c	$1.08
Price each, Nickel Plated	60c	69c	82c	1.18



No. 933



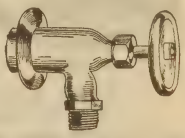
No. 934

FULLER PLAIN BIBBS FOR IRON PIPE

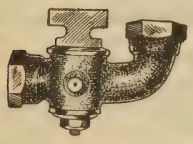
Size, inches	1-2	5-8	3-4	1
Price each, Finished Brass	45c	50c	63c	$1.04
Price each, Nickel Plated	55c	60c	73c	1.14

COMPRESSION SILL COCKS

Size....3-4 Price....$0.70



No. 935



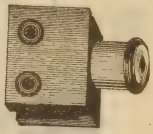
No. 936

HYDRANT COCKS

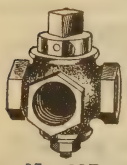
Size inches	1-2	3-4	1
Price each	$0.44	$0.66	$.094

HYDRANT CLAMPS

Size, inches	1-2	3-4	1	1 1-4
Price, each	4c	5c	6c	6c



No. 931



No. 937

THREE-WAY BRASS COCKS

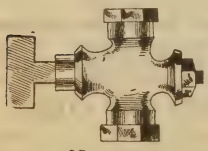
Size, inches	1-2	3-4	1	1 1-4	1 1-2	2
Price, each	$0.70	$0.85	$1.00	$1.65	$2.00	$3.00

LEVER HANELE BRASS STOPS FOR IRON PIPE

Size, inches	1-2	3-4	1	1 1-4	1 1-2	2
Price, each	37c	58c	84c	$1.32	$2.14	$3.96

TEE HANDLE BRASS STOPS. FOR IRON PIPE

No. 938

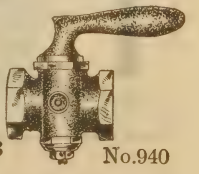


No. 939

Size, inches	1-2	3-4	1	1 1-4	1 1-2	2
Price, each	36c	56c	82c	$1.29	$1.93	$3.86

LEVER HANDLE BRASS STOP AND WASTE. FOR IRON PIPE

Size, inches	1-2	3-4	1	1 1-4	1 1-2	2
Price, each	40c	60c	87c	$1.36	$2.03	$4.03



No.940

No. 940 1-2. TEE HANDLE BRASS STOP AND WASTE Same Price as Lever Handle.

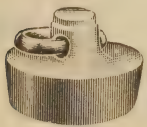
Basin Cock Repairs

Fuller Balls. Made of hard rubber. All sizes. For Fuller basin cocks, bath cocks, or for ½ inch, ⅝ inch or ¾ inch bibbs.
Each.....$0 05

No. P0020

Red rubber bibb washers, for repairing compression bibbs, basin cocks or bath cocks. Sizes, ⅜, ½, ⅝, ¾. Each.....$0 02

No. P0021

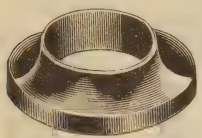


Stoppers for basin or bathtubs.
Basin stoppers, each.....$0 10
Bath stoppers, each..... 0 15

No. P0022

Rubber basin washers, to fit inside earthenware basins when the basin plug is made up tight to prevent leakage.
Price, each.....$0 07

No. P0023

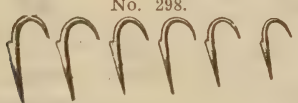


Rubber Sink Gaskets, to be used instead of putty in making up the collar. Price, each...$0 10

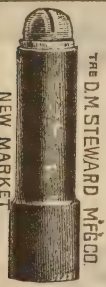
No. P0024

NEW GAS PIPE HOOKS

No. 298.



Size, inches	½	¾	1	1¼	1½	2
Per hundred...	$0.38	.60	.75	.85	1.35	1.60



GAS BURNERS

"New Market"
No. 407

Price per dozen.....$0 35

LAVA TIPS

For Gas Burners
No. 408

Doz.$0.08 Gross.$0.80

MONITOR HEATER BURNER

No. 406

These burners are just the thing to screw on a gas fixture and heat a cup of water or a curling iron almost instantly. They make an intensely hot blue flame without smoke or odor, and are exactly the right size to screw on where the gas tip has been removed.

Size Burner...	1	2
Price, each.....	$0.25	$0.30

TAPER SLIDE AND KEY

No. 300. Regular, clean, new stock.
Each $0.10
Per dozen..... 1.00

WAX TAPERS.

No. 299. Full length, regular stock, in boxes.
Per box.....5c

Galvanized Goose Neck Hydrant.

Fig. 118.

Fig. 118. A low-priced efficient hydrant. The goosenecks have a ¾-inch hose thread. The valve can be placed below frost line, and the hydrant will drain as soon as shut off.

No. 5	5½	ft. long.....	$2.00
No. 6	6	ft. long.....	2.10
No. 7	6½	ft. long.....	2.20
No. 8	7	ft. long.....	2.30
No. 9	7½	ft. long.....	2.40
No. 10	8	ft. long.....	2.50

SERVICE CONNECTIONS

(For Mueller or Payne Tapping Machine)

Mueller or Payne Corporation Cock, wiped on one end, of 18 inch extra strong lead pipe. Brass soldering nipple wiped on other end.

Size,	½ in.	⅝ in.	¾ in.	1 in.
Each,	$1.50	$1.60	$1.75	$2.50

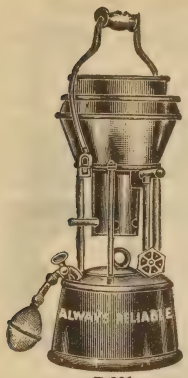
Corporation Cocks only for Mueller Machine

Size,	½ in.	⅝ in.	¾ in.	1 in.
Price,	$0.45	$0.65	$0.80	$1.25

PAYNE'S CORPORATION COCKS

No. 343. 24⅜ inch, each.....$0.35
17½ inch, wiper connection, each..... 1.10
10⅝ inch, wiper connection, each..... 1.25
13¾ inch, wiper connection, each..... 1.60

Plumber's Tools and Supplies



P 001.

PLUMBERS' GASOLINE BLAST FURNACE.

High grade, well made. Guaranteed perfect.

Price, each.....$3.75
P 002. Melting Pots, extra, each..... .50
P 003. Ladles, each.. .25

PARTS OF FURNACE.

P 004. Bulbs, each.....$0.20
P 005. Shields, each ..... .35
P 006. Filling Screw, each ..... .10
P 007. Handle, each ..... .25

PLUMBERS' WIPING CLOTHS.

P 008. Ticking, each $0.10
P 009. Moleskin, each..... .20

SOLDERING COPPERS.

P 0010.

We have on hand 500 Soldering Coppers, with square points for common use. They weigh one pound each. Come without handles. Length over all, 16 inches. Length of copper.

Per dozen.....$3.00
Each.....30

BENDING SPRINGS.

P 0011.

Improved lead bending springs, made of best quality spring steel.

Size, inches	1	1¼	1½	2
Price, each	$0.50	.55	.65	.90

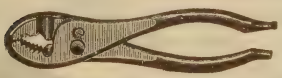
TURN PINS.

P 0012.

Used for flanging out lead pipe, in making solder joints.

	Each.
No. 1. Up to 1 in. pipe	$0.25
No. 2. Up to 1½ in. pipe	.25
No. 3. Up to 2 in. pipe	.30

COMBINATION PLYERS.



P 0013.

The handiest tool in existence.

Combination plyers, made of best grade tool steel, have both flat and pipe jaws adjusted with 2 clutches and will grip up to ¾ inch gas pipe. One handle is extended into a finely tempered screw driver. They are sharpened between jaws, making a wire cutter. These plyers are handsomely nickel plated.

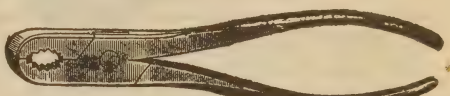
Size inches	6	8	10
Price, each	40c	55c	60c

Gas Pliers.

Extra fine steel.

Length inches	7	8	9	10
Price each	20c	25c	30c	35c

Burner Pliers.



Size inches	5	6
Price each	15c	20c

Plumber's Friend Force Cups.

Used for forcing closets, sinks, basins and almost any kind of a chocked up pipe. Made of best grade rubber, with a strong wooden handle. Every household where there is plumbing should have one.

Price, each.....60c

Calking Chisels.

P0015.

Straight yarning chisel, used to pack in the oakum. Price, each.....30c

P0016.

Right hand calking chisel, used to calk in the lead. Price, each.....30c

P0017

Left hand calking chisel, used to calk in th lead. Price each.....30

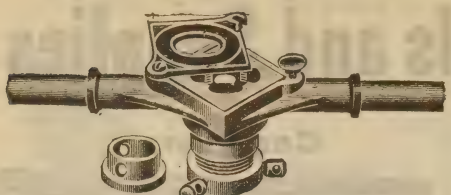
P0018.

Stub calking chisel, used to finish the calked joint. Price, each.....30c
Price per set of 4 chisels.....$1.00

Lead Tacks.

Used in lead pipe work. The lead pipe is soldered to the tag and the tag is then fastened with screws to the wall.

Price per pair.....10c



TOOLS

MALLEABLE IRON PIPE STOCKS

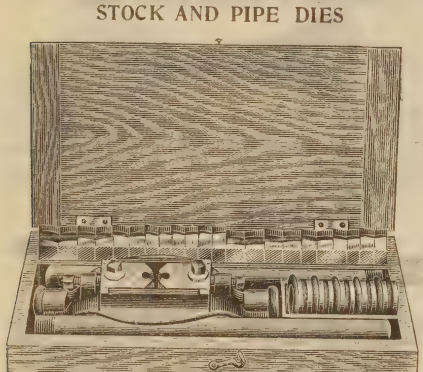
With Solid Steel Dies. Each Set Fully Warranted.

Nos.	0	1	1½	1¾	2	3
Dimensions of Dies.	2x2x½	2½x2½x¾	3x3x¾	3x3x¾	4x4x⅞	5x5x1¼
Pipe Sizes of Dies.	⅛, ¼, ⅜, ½,	¼, ⅜, ½, ¾, 1,	¾, 1, 1¼,	1, 1¼, 1½,	1½, 1¾, 2,	2½, 3.
Stock Comp. R. H. Dies.	$2.20	$2.85	$2.60	$2.60	$3.80	$11 50

EXTRA DIES AND GUIDES

Dimensions.	Sizes (enter right or left hand,)	Price, Die.	Price, Guide.
2 x2 x ½	⅛, ¼, ⅜, ½, ¾,	$0.33	$0.07
2½x2½x ¾	⅛, ¼, ⅜, ½, ¾, 1,	.42	.08
3 x3 x ¾	¾, ¼, ⅜, ½, ¾, 1, 1¼, 1½,	.65	.10
4 x4 x ⅞	½, ¾, 1, 1¼, 1½, 2,	.83	.09
5 x5 x 1¼	2½, 3 (Right hand only.)	2.50	.28

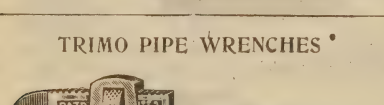
ARMSTRONG PATTERN ADJUSTABLE STOCK AND PIPE DIES



Each Set Fully Warranted.

	Thread Pipe.	Price per set.
No. 2	¼, ⅜, ½, ¾, 1,	$3.45
No. 2½	½, ¾, 1, 1¼,	3.50
No. 3	1¼, 1½, 2,	5.75
No. 6	2½, 3	15.00
No. 7	3½, 4,	16.50

TRIMO PIPE WRENCHES



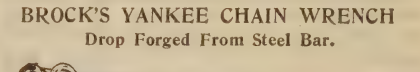
Length, Inches.	Takes Pipe, Inches.	Price, Each.
6	⅛ to ½	$0.60
8	⅛ to ¾	.60
10	⅛ to 1	.68
14	¼ to 1½	.88
18	½ to 2	1.18
24	¼ to 2½	1.75
36	½ to 3½	4.25
48	1 to 5	6.40

STILLSON PIPE WRENCHES

Length, Inches.	Takes Pipe, Inches.	Price, Each.
6	⅛ to ½	$0.56
8	⅛ to ¾	.58
10	⅛ to 1	.63
14	¼ to 1½	.86
18	¼ to 2	1.15
24	¼ to 2½	1.75
36	½ to 3½	4.25
48	1 to 5	6.25

BROCK'S YANKEE CHAIN WRENCH

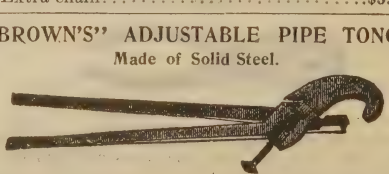
Drop Forged From Steel Bar.



Size No. 1—Capacity, ¼ to 2 in.; length, 20 in.; weight, 5 lbs. **Price**.....$1.47
Extra chain.....60c
Size No. 2—Capacity, ½ to 3 in.; length, 27 in.; weight, 8 lbs. **Price**.....$2.20
Extra chain.....$1.20
Size No. 3—Capacity, ¾ to 7 in.; length, 37 in.; weight, 16 lbs. **Price**.....$3.10
Extra chain.....$1.80
Size No. 3½—Capacity, 1 to 8 in.; length 44 in.; weight, 21 lbs. **Price**.....$4.40
Extra chain.....$2.10
Size No. 4—Capacity, 1½ to 10 in.; length, 50 in.; weight, 28 lbs. **Price**.....$6.25
Extra chain.....$2.40
Size No. 5—Capacity 2 to 64 in., length, 64 in.; weight, 45 lbs. **Price**.....$9.75
Extra chain.....$3.60

"BROWN'S" ADJUSTABLE PIPE TONGS

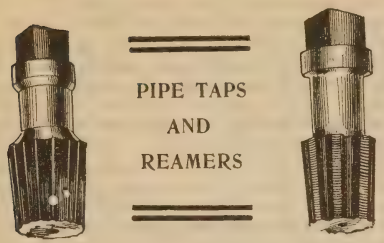
Made of Solid Steel.



Made adjustable by a thumb screw to fit different size of pipe.

Nos.	1	1½	2	3	4
Pipe, ins.	¼ to ¾	⅜ to 1	½ to 1¼	1 to 2	1½ to 3
Price	$0.60	$0.75	$1.20	$1.80	$2.70

TOOLS---Continued.

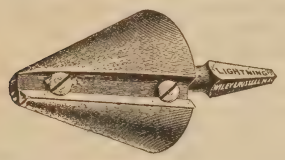


PIPE TAPS AND REAMERS

Inches.	⅛	¼	⅜	½	¾	1	1¼	1½	2
Price..	$0.15	.18	.22	.27	.37	.45	.55	.68	.90

IMPROVED LIGHTNING BURRING REAMER

For Pipe of Sizes ½ in. to 2 in.

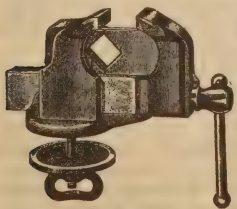


No. 549. Diameter at point, 7-16 in. Diameter at largest part, 2⅛ in. Length of cutter 2⅝ in.
Price, complete.....$1.50
Extra Cutters..... .12

The single cutting blade, set in the hardened steel holder, cuts smoothly, steadily and easily, taking an even chip like a plane, without digging in, catching and sticking. This cutter being triangular in shape (three cutting edges) may be turned, presenting each time a fresh edge to the work, and it also may be shifted lengthwise for the same purpose.

The stock of holder remains good indefinitely, and the cutters, made of the finest steel, can be renewed at a slight cost.

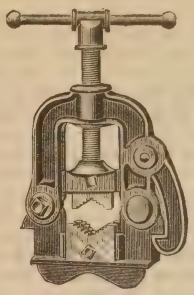
These cuts of pipe ends, before and after burring, show the great saving in pipe capacity gained by using these tools.



COMBINATION VISES

Strongest Combination Pipe Vise made Swivel base guaranteed not to slip. Pipe Jaws are reversible. Best materials, finest finish.

No. 1, width of jaw 3½ in., weight 45 lbs., capacity ⅛ to 2 in. Price.....$4.50
No. 2, width of jaw 4 in., weight 70 lbs., capacity ⅛ to 3 in. Price.....$5.60
No. 3, width of jaw 4¾ in., weight 105 lbs., capacity ⅛ to 4 in. Price.....$8.40



OPEN HINGE MALLEABLE IRON PIPE VISES

With Steel Jaws.

No. 186—Capacity, ⅛ to 2½ in. pipe. Price, $1.20
No. 287—Capacity, ⅛ to 3½ in. pipe. " 2.00
No. 388—Capacity, ½ to 4½ in. pipe. " 3.00

BARNES' THREE WHEEL PIPE CUTTERS

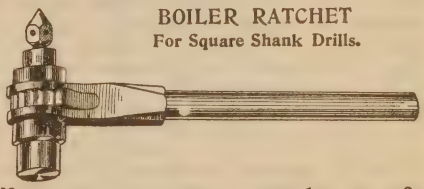
Nos.	Cuts Pipe, ins.	Price, each.	Extra Wheels, Price, each.
1	⅛ to 1	$0.95	$0.06
2	½ to 2	1.20	.07
3	1½ to 3	2.25	.10
4	2½ to 4	3.90	.13

SAUNDERS' PATTERN IMPROVED PIPE CUTTERS

Nos.	Cut Pipe, in.	Price each.	Extra Wheels, Price each.
1–A	⅛ to 1	$0.75	$0.06
2–A	1 to 2	.95	.08
3–A	2 to 3	2.30	.15
4–A	2½ to 4	3.75	.15

BOILER RATCHET

For Square Shank Drills.



Nos.	1	2
Size, inches	10	12
Price, each	$2.50	$2.75

TAPER SQUARE SHANK DRILLS

To Fit Boiler Ratchets.

Diameter Inches.	Length, Inches.	Price, each.
¼	5	$0.55
5–16	5	.60
⅜	6	.65
7–16	6½	.69
½	6½	.72
⅝	6½	.78
¾	6½	.85
⅞	7½	1.12
1	8½	1.40
1¼	9	1.70
1½	9	2.00

AIR PRESSURE WATER WORKS SYSTEM.

Individual Water Works Plant for Your Home or Farm.

Our system consists of a large, heavy, air tight steel storage tank and a powerful force pump. In the larger systems these pumps may be worked by either windmill or gasoline engine. We sell gasoline engines for this purpose, but do not deal in windmills.

OPERATION. The principle in the system is delivery of water by the pressure of compressed air. Air is very elastic. **A normally empty tank is full of air and as water is pumped into the tank, the air above is compressed into smaller and smaller space, the pressure increasing in proportion to the quantity of water forced into the tank.** Experience has demonstrated that the most satisfactory service in one of these air pressure outfits will be obtained by **having an excess of about 10 lbs. air pressure in the tank.** This is obtained by pumping just a few gallons of water, merely enough to insure covering the connection of the pump to the tank and the openings into it, then pumping in air until the pressure on the gauge is increased 10 lbs. More than 10 lbs. would give a greater proportion of air than required, and less than 10 lbs. would not give sufficient. This **10 lbs. pressure is sufficient to deliver all of the water that may be pumped into the tank to the plumbing fixtures of the second floor.** As water is pumped into the tank and the pressure increases, you will find that with 30 lbs. pressure the tank will be approximately half full of water, and when the tank is two-thirds full you will have 60 lbs. pressure. If no excess air is pumped into the tank the pressure will be only about 17 lbs. when the tank is half full of water, and 35 lbs. when two-thirds full. This is not sufficient to force ALL the water to the second floor.

It is not advisable to pump more than a 60 lbs. pressure. In hand outfits we do not recommend pumping to more than 40 lbs. pressure, for the **pressure increases very rapidly after the tank is half full of water,** and the few extra gallons that you can pump in will not make up for the strain on your plumbing, pipes and fixtures. As the faucets are opened expansion of the air in the tank will force the water through the piping and it will flow **the same as water from city water works.** Water will be delivered a fraction more than 2 ft. in height for every pound pressure in the tank. Of course, as the water is drawn out of the tank the pressure decreases, because the air has a chance to expand. In an average family with one bathroom about 100 gallons of water per day is the amount used, and in most of our outfits we use tanks for approximately 300 gallons capacity, so that if the tank is pumped to 40 lbs. pressure there will be about 185 gallons of water in the tank that can be drawn off through the faucets. This will be about two days' supply. From this tank the water may be piped to the plumbing fixtures, or to the heating plant, to the lawn for sprinkling purposes, to the barn lot or to the pasture lot, in fact, **it may be pined anywhere and almost any distance.**

The advantages of this system over an elevated tank are that the tank may be placed in your cellar or in a pit, and it is thus protected from the elements, from freezing in winter and from extreme heat in summer. Another advantage is that water may be piped much higher than with the average elevated tank, the pressure of 40 lbs. being equal to an elevated tower of about 93 ft. With this air pressure system a pressure may be maintained that will **throw water over any building and thus provide effective fire protection.** As compared with the attic tank, in our system there is no danger from leaks or from settling walls, either of which would crack your plaster. As compared with an elevated windmill tank or elevated tower tank, there is no danger of the tank and the connecting pipe freezing up in the winter time and no danger of the water becoming too warm and stagnant in summer. **Water under heavy pressure will absorb some air, and this destroys all animal or vegetable matter in the water and renders it remarkably sweet and clean.** An evidence of this absorption of air is when the water is drawn in a glass it has a whitish color, but this passes off in five or ten seconds in the form of minute bubbles. The absorption of air will gradually rob the tank of its air cushion, so that it is necessary to supply fresh air in the tank once or twice a month. This can be accomplished in a number of ways. The most satisfactory way is to have a separate hand air pump, as shown in the cut herewith of our outfit No. A. P. 1. In connecting this air pump it should always be connected as shown in the illustration—into the bottom of the tank and never into the air space at the top of the tank. The pumps, as we furnish them, have ⅜ in. iron pipe threaded connection and should be connected with ⅜ in. pipe and have a ⅜ in. check valve, and a ⅜ in. globe valve between the air pump and the tank.

There are some automatic devices on the market that are good, but we do not recommend their use, because the average mechanic installing one of these outfits does not make the connections absolutely true and correct, and the result is that the automatic device causes more or less annoyance and trouble and very frequently it will fail entirely to supply the air. **Consequently, we think that the most simple method is the safest, and it is what we recommend.** With the special hand air pump, after the first air cushion of 10 lbs. is supplied, it is only necessary **to pump air once or twice a month to maintain this air cushion, and fifteen or twenty minutes pumping is about all that would be required.** Do not attempt to pump the air when the tank is filled with water. Rather you should pump the air when the tank is almost empty, as the air will enter then under very slight pressure and you can pump it quite rapidly. In some of our outfits we show

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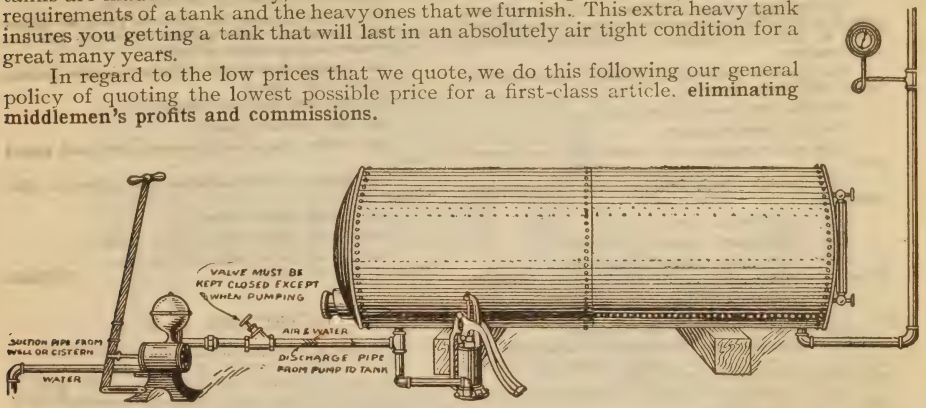
a way of supplying the air without the use of the separate hand air pump by means of a small air cock. While this plan may be used with the special air and water pumps that we furnish, we do not recommend it as being entirely satisfactory as the outfit with the separate hand air pump.

Now, in regard to our special Chicago Air Pressure Tanks, these tanks are specially constructed with a view of making them air tight, and we guarantee them air tight. Our tanks are made extra heavy, so that there is a wide margin of safety between the actual requirements of a tank and the heavy ones that we furnish. This extra heavy tank insures you getting a tank that will last in an absolutely air tight condition for a great many years.

In regard to the low prices that we quote, we do this following our general policy of quoting the lowest possible price for a first-class article, **eliminating middlemen's profits and commissions.**


VALVE MUST BE KEPT CLOSED EXCEPT WHEN PUMPING
AIR & WATER
SUCTION PIPE FROM WELL OR CISTERN
WATER
DISCHARGE PIPE FROM PUMP TO TANK

OUTFIT NO. A. P. 1.

This outfit consists of a special Chicago Air Pressure tank 30 in. x 8 ft., tapped to lay horizontally, capacity 295 gallons.
One special horizontal cylinder double acting hand force pump, brass lined.
One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1 in. gate valve.
One 1 in. check valve.
One ⅜ in. globe valve for the air pipe.
One ⅜ in. check valve for the air pipe.
One 1¼ in. foot valve and strainer.
Price of this outfit..... **$65.00**

OUTFIT NO. A. P. 2.

This outfit consists of a special Chicago Air Pressure tank 36 in. x 8 ft., capacity 425 gallons.
One special horizontal cylinder double acting hand force pump, brass lined.
One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1 in. gate valve.
One 1 in. check valve.
One ⅜ in. globe valve for the air pipe.
One ⅜ in. check valve for the air pipe.
One 1¼ in. foot valve and strainer.
Special price of this outfit ..... **$78.00.**

OUTFIT NO. A. P. 3.

This outfit consists of a special Chicago Air Pressure tank 36 in. x 12 ft., capacity 530 gallons.
One special horizontal cylinder double acting hand force pump, brass lined.
One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1 in. gate valve.
One 1 in. check valve.
One ⅜ in. globe valve for the air pipe.
One ⅜ in. check valve for the air pipe.
One 1¼ in. foot valve and strainer.
Price of this outfit..... **$93.00.**

THE LOWEST PRICES EVER QUOTED ON 1ST. CLASS PNEUMATIC WATER SUPPLY OUTFITS.

AIR PRESSURE WATER SUPPLY.

OUTFIT NO. A. P. 5.

This outfit consists of the following:

One new extra heavy Chicago Air Pressure Tank, tested to 125 lbs. air pressure and guaranteed tight. Tank 42 inches in diameter, 14 feet long, capacity 1,000 gallons.

One special horizontal cylinder, double acting, brass lined force pump.

One No. 600 hand air pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

One special 1-inch Jenkins disc valve for discharge pipe.

One 1-inch check valve.

One ¾-inch check valve for air pipe.

One ¾-inch globe valve for air pipe.

Price of above outfit.....$135.00.

OUTFIT NO. A. P. 6.

This outfit consists of the following:

One special Chicago Air Pressure Tank, 42 inches by 16 ft., capacity 1,150 gallons tested to 125 lbs. air pressure, and guaranteed tight.

One special double acting horizontal cylinder, brass lined force pump.

One No. 600 hand air pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

One special 1-inch Jenkins disc valve for discharge pipe.

One 1-inch check valve.

One ¾-inch valve for air pipe.

One ¾-inch globe valve for air pipe.

Price of above outfit.....$142.00.

OUTFIT NO. A. P. 7.

This outfit consists of the following:

One special Chicago Air Pressure Tank, 48 inches by 16 ft. capacity, 1,500 gallons, tested to 125 lbs. air pressure, and guaranteed tight.

One special horizontal cylinder, double acting, brass lined force pump.

One No. 600 hand air pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

One special 1-inch Jenkins disc valve for discharge pipe.

One 1-inch check valve.

One ¾-inch check valve for air pipe.

One ¾-inch globe valve for air pipe.

Price of above outfit.....$175.00.

OUTFIT NO. A. P. 8.

This outfit consists of the following:

One special Chicago Air Pressure Tank, 4? inches in diameter, 20 feet long, capacity 1,880 gallons, tested to 125 lbs. air pressure, and guaranteed tight.

One special horizontal cylinder, double acting brass lined force pump.

One No. 600 hand air pump.

One water gauge with water glass and guard rods.

One special 1-inch Jenkins disc valve for discharge pipe.

One 1-inch check valve.

One ¾-inch check valve for air pipe.

One ¾-inch globe valve for air pipe.

Price of above outfit.....$220.00.

Now we can substitute in place of the horizontal cylinder pump in the above outfits, and this pump is only adapted for pumping where the water is not more than 20 feet below the surface or below the pump, if you have a deep well, we can furnish a Fig. VV deep well cylinder pump, size No. 340, without change in price. This pump will be furnished with a wind mill head, if you so specify, without extra charge.

PRICES OF OUR CHICAGO AIR PRESSURE TANKS, NEW, FOR AIR PRESSURE WATER SUPPLY SYSTEMS. PRICES ARE F. O. B. OUR FACTORY NEAR CHICAGO.

Diameter in Inches.	Length in feet.	THICKNESS.		Weights.	Capacity in Gallons.	Net Price.
		Shell.	Heads.			
24	6	3/16	5/16	445	145	$ 30.00
24	8	3/16	5/16	560	195	37.50
24	10	3/16	5/16	675	245	42.00
30	6	3/16	5/16	560	220	39.00
30	8	3/16	5/16	700	295	48.00
30	10	3/16	5/16	870	365	54.75
30	12	3/16	5/16	900	440	61.50
36	6	3/16	5/16	750	315	49.50
36	8	3/16	5/16	900	420	58.50
36	10	3/16	5/16	1,050	525	69.00
36	12	3/16	5/16	1,200	630	71.25
42	8	1/4	3/8	1,450	575	71.25
42	10	1/4	3/8	1,650	720	84.75
42	12	1/4	3/8	1,900	865	105.00
42	14	1/4	3/8	2,200	1,000	116.25
42	16	1/4	3/8	2,400	1,150	126.00
48	10	1/4	3/8	2,066	1,000	120.00
48	12	1/4	3/8	2,320	1,130	133.50
48	14	1/4	3/8	2,610	1,300	146.25
48	16	1/4	3/8	2,900	1,500	162.75
48	18	5/16	7/16	3,600	1,700	187.50
48	20	5/16	7/16	3,950	1,880	210.??
48	24	5/16	7/16	4,650	2,260	233.??

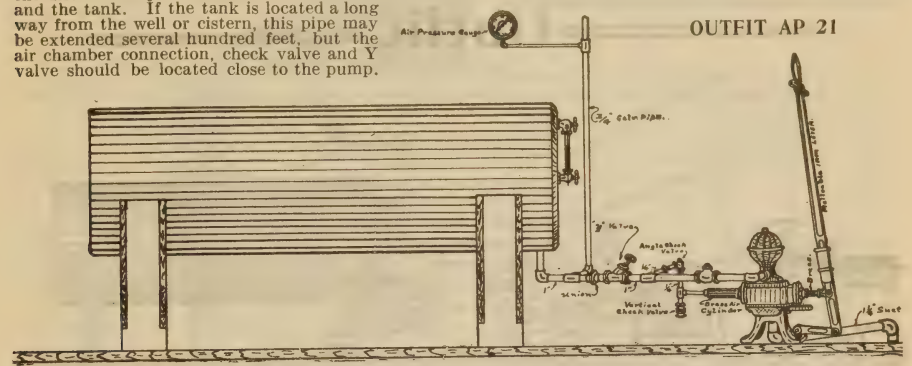
Manheads $10.00 extra. Water Gauges, etc., are not included in the above prices. All tanks tested to 125 lbs. air pressure, and guaranteed.

OUTFITS WITH AIR AND WATER PUMP

These outfits have a combined air and water pump, our Fig. 706 pump. This pump has an 1¼" suction and a 1" discharge, and in addition it has an air pump attachment that positively pumps air. The air attachment is made with ¼" check valves, fittings, nipples, etc., and these fittings are included in the price of these outfits.

The outfit should be installed just as shown in the illustration, but it makes no difference how great the distance may be between the Y valve and the tank. If the tank is located a long way from the well or cistern, this pipe may be extended several hundred feet, but the air chamber connection, check valve and Y valve should be located close to the pump.

OUTFIT AP 21



OUTFIT AP 21.

This outfit consists of our special air and water pump and a 150 gallon special Chicago Air Pressure Tank, 24 inches in diameter and 6 feet high. It is tapped to stand on end unless otherwise specified and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge, and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$50.00**

OUTFIT AP 22.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 24 inches in diameter, 8 feet high, tapped to lay horizontally unless otherwise specified, capacity, 195 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge, and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit complete as described.....**$55.00**

OUTFIT AP 23.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 6 feet high, tapped to stand on end unless otherwise specified, capacity, 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$56.00**

OUTFIT AP 24.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 8 feet long, tapped to lay horizontally unless otherwise specified, capacity, 295 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$65.00**

OUTFIT AP 25.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank 30 inches in diameter by 10 feet, tapped to lay horizontally unless otherwise specified, capacity, 365 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$72.00**

OUTFIT AP 26.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank 36 inches in diameter by 6 feet, tapped to stand on end unless otherwise specified, capacity, 315 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, guard rods and gauge cocks, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$67.00**

OUTFIT AP 27.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank 36 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity, 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$77.00**

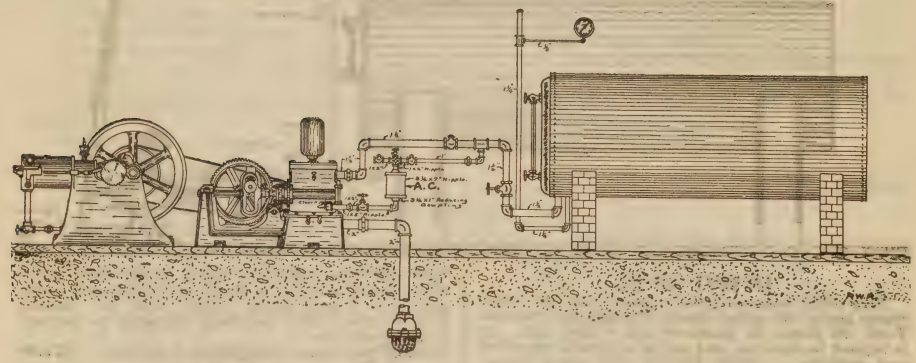
OUTFIT AP 28.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank 42 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity, 575 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and water glass, and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$88.00**

OUTFIT AP 29.

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank 42 inches in diameter by 14 feet, tapped to lay horizontally unless otherwise specified, capacity, 1,000 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described....**$131.00**

The Best Yet Air Pressure Outfit.



Our Best Yet Air Pressure Outfit is a power outfit and is made up of one new 1½ H. P. gasoline engine of strong and simple design, made with electric igniter. All parts of the engine are in plain view and very accessible. The gasoline in carried in the cast iron base of the engine where it is absolutely safe from the danger of explosion. After being carefully assembled, these are given two or three days' continuous running under full load and are guaranteed to be in perfect condition. **These are shipped with the necessary wrench, oil cans, spark coils, switch and batteries.**

The pump is a horizontal cylinder extra heavy geared pump. The cylinder is 4½"x6" stroke. The pump is geared 5 to 1 and at a pulley speed of 250 r. p. m. the capacity is 2000 gallons per hour. The pulley is 14" diameter by 4" face. The pump occupies a floor space of 36"x19", has a 2" suction and 1½" discharge. This pump is not designed to be used where the water is more than 25 ft. below the level of the cylinder.

In the illustration above, you will note the little cylinder between the pump and tank, marked "A. C." This is the air chamber. We make this pump with an air chamber attachment and by opening the valve on the air chamber and starting the pump, it will pump air and not water into the tank and by this means you can easily keep the tank filled with the proper proportion of air. These pumps are built to work against 100 lbs. pressure. This pump is made with a single set of gears with wide face and large well made teeth to give ample strength and smooth running.

As you will note, these pumps are of particularly large capacity but we could not furnish a smaller pump with say a capacity of 1,000 gallons per hour, at a difference of more than $5.00 in the net price, and we consider this large capacity pump a particularly fine feature as it makes for more fire protection. **With the water stored in the tank for use in case of fire, it would be possible to start play on the fire with this and get the pump to working and this has a capacity to supply two ¾ hose with ¼" nozzles at a steady 40 lb. pressure and could keep this up indefinitely.** The hose, would of course, be attached to the hose connections anywhere they were provided, the water being forced from the tank and out through the pipe lines in case of fire, the same as it would be delivered to the fixtures from the tank when the pump is not running. **These pumps will handle hot and cold liquids and can be used as boiler feed pumps.** Our price for pump, engine, belt air chamber, valves, etc., is..... **$135.00**

The air pressure outfit would be made up of the above pumping outfit and air pressure tank. They can be used in connection with a tank of any size. The prices of the new air pressure tanks given on a preceeding page are net and by adding the price of the tank to the above price of $135.00 for the pumping outfit, you will have the price of an air pressure outfit with any size tank you may want.

New Chicago Air Pressure Tanks

Large Size

Diameter in Feet	Length in Feet	Capacity in Gallons	Price
5	20	2950	$325.00
5	22	3250	340.00
5	24	4525	350.00
6	24	5075	445.00
6	30	6350	500.00
7	24	6900	570.00
7	28	8060	600.00
8	36	13500	725.00

We have a number of first class second hand tanks in stock at the present time suitable for use with the above pumping outfit on which we quote the following net cash prices, subject to prior sale.

One 36"x6', 315 gal. capacity, extra heavy, tested to 150 lbs. pressure, guaranteed.. **$40.00**

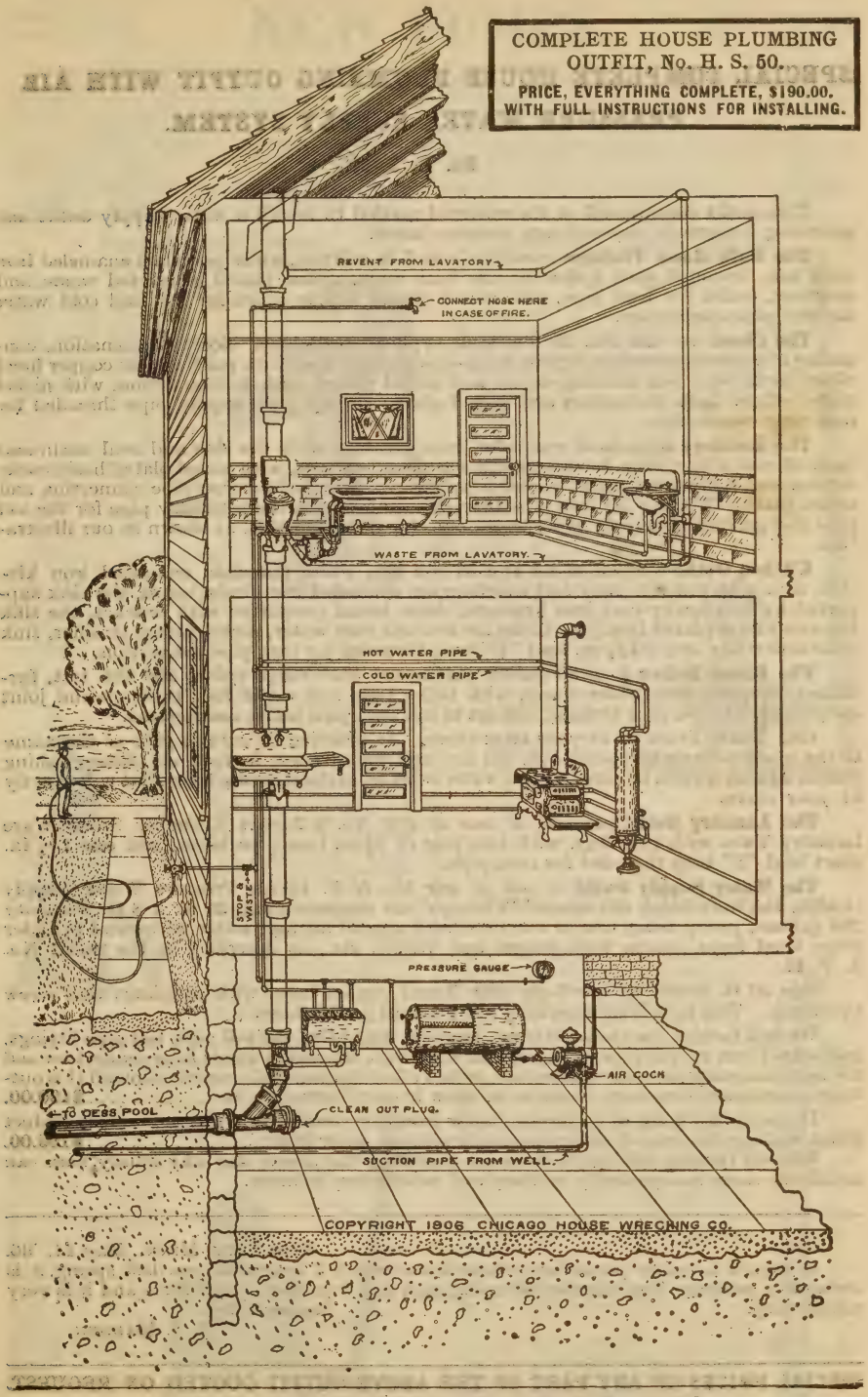
One 36"x12', 630 gal. capacity, same description and test as above..... **62.00**

One 48"x28', 2600 gal. capacity, horizontal seams, double riveted, same description and test as above..... **200.00**

One 72"x16', 3550 gal. capacity, horizontal seams, double riveted, tested to 100 lbs. and guaranteed..... **200.00**

COMPLETE HOUSE PLUMBING OUTFIT, No. H. S. 50.

PRICE, EVERYTHING COMPLETE, $190.00. WITH FULL INSTRUCTIONS FOR INSTALLING.



WRITE FOR OUR SPECIAL HEATING CATALOGUE.

SPECIAL COMPLETE HOUSE PLUMBING OUTFIT WITH AIR PRESSURE WATER SUPPLY SYSTEM.

No. H. S. 50.

This outfit contains all of the material needed to install a water supply outfit and plumbing fixtures in any ordinary country home.

The Bath Room Fixtures consist of one 5 ft. roll rim, white porcelain enameled iron bath tub, trimmed with Fuller double bath cock, nickel plated connected waste and overflow, outlet for iron pipe, and nickel plated supply pipes for hot and cold water for iron pipe connection.

The Closet IS OUR No. 55 low tank syphon wash-down closet combination, consisting of vitreous porcelain syphon wash-down closet bowl with polished oak copper lined closet tank, with best flushing device and nickel plated push button action, with nickel plated elbow flush connection and nickel plated supply pipe, supply pipe threaded for iron pipe connection.

The Lavatory consists of enameled iron lavatory with the slab and oval basin and back all cast in one piece, furnished with cast iron brackets, with nickel plated basin cocks for hot and cold water, nickel plated supply pipes threaded for iron pipe connection and nickel plated "P" trap for iron pipe thread; together with the necessary pipe for the soil pipe and galvanized supply pipe, traps, etc., for installing this, as shown in our illustration.

Kitchen Outfit consists of an 18 x 30 roll rim, white porcelain enameled iron kitchen sink with roll rim back and overhanging enameled iron drain board, the sink supported by two heavy cast iron brackets, drain board supported with bracket, the sink has two nickel plated iron pipe bibbs for hot and cold water, nickel plated strainer, sink bolts and collar and a 1½ in. lead "P" trap threaded for iron pipe connection.

The Range Boiler is a 30 gallon galvanized iron range boiler, 200 lbs. test, furnished complete with boiler stand, with boiler tube and set of four brass ground joint couplings with iron pipe threads, one set of our lead pipe boiler connections.

One Water Front to fit your cook stove. In ordering be sure to give us the name of the manufacturer of your stove, the size and the number, in fact all distinguishing marks, so that we can be sure to get a water front from the manufacturer that will exactly fit your stove.

The Laundry Outfit consists of one of our No. 6, 2 part Economy Stone Ware Laundry Tubs with iron legs, with two pair of ½ in. iron pipe bibbs, and one 1½ in. short lead "S" trap threaded for iron pipe.

The Water Supply Outfit is one of our No. A. P. 11 Air Pressure Water Supply Outfits, the tank being our special "Chicago" air pressure tank, 30 in. x 8 ft., capacity 295 gallons, pump being one of our combined special air and water horizontal cylinder brass lined force pumps with gauges and valves, etc., as described in the Outfit No. A. P. 11.

One 50 ft. length of our 5-ply star Brand garden hose, with couplings and screw tip nozzle. This hose is an especially fine grade of garden hose.

We will furnish the above fixtures, together with all of the soil pipe, soil pipe fittings, galvanized iron supply pipe, and galvanized fittings, sill cock, outside hose connection and the hose faucet for the attic connection, in fact all of the material needed to install this outfit in an ordinary two-story house as we show in our illustration for.....**$190.00.**

If you do not want us to furnish water front for your kitchen range, you may deduct $5.00, making the price of the entire outfit without water front.....**$185.00.**

We will furnish full instructions for installing the above and any handy man can install the same in a perfectly sanitary and satisfactory manner.

PINE CITY, MINN., May 11, '06.

In regard to water plant for private house which I bought of you last spring, it is certainly a success. Ten minutes pumping each day furnishes ample force and it is very satisfactory.

Respectfully,

J. J. MADDEN.

SPECIAL PRICES ON ANY PART OF THE ABOVE OUTFIT QUOTED ON REQUEST.

Prices the Lowest
Quality the Best.

NEW PUMPS.

Every Pump Guaranteed.
Every Pump tested.

Before placing pump in well, put the cylinder in a pail of water. This will expand the buckets. If the buckets should be thick, it may work hard and stiff at first. The difference in thickness and expansion of leathers, when pumps are fitted snug, makes it almost impossible to adjust them right at the factory and have them all work easy when first put in. The pump always workes easier after a few days use.

In placing the pump in the well, be very careful to see that the pipe joints are well threaded and screwed together snugly. Great care should be taken that the connecting rod in deep well pumps be well threaded and screwed together tightly, making good strong joints. Fasten the pump to the platform with wood screws.

TO PRIME THE PUMP HOLD A PAIL OF WATER TO THE SPOUT AND WORK THE HANDLE RAPIDLY, AND IT WILL PRIME ITSELF.

Pitcher Spout Pumps.

Iron or Brass Cylinder.

Fig. AA. These widely known and much used little pumps reach the top in perfection and the bottom in price. Both styles have bearer tops that can be shifted to any desired position, making a right or left hand pump. Raise the handle high up to trip the valve and prevent freezing. Fitted for iron pipe. Lead pipe connections furnished at extra price if desired. Brass cylinder pumps have brass valve seats.

SIZES AND PRICES.	Iron.	Brass Lined.
No. 1—2¼ in. cyl. for 1 in. pipe	$0.87	$1.72
No. 2—3 in. cyl. for 1¼ in. pipe . .	1.10	1.80
No. 3—3½ in. cyl. for 1¼ in. pipe . .	1.35	2.25
No. 4—4 in. cyl. for 1½ in. pipe . .	1.45	2.45

Kitchen Force Pump.

Brass Cylinder.

Fig. BB. A neat, compact, powerful little force pump with long fulcrum, strong handle, polished steel piston rod working in a brass gland, brass valve seat, trip valve and hose bibb. Especially adapted for elevating water from cisterns to supply tank for bathtub and sink. Note the discharge outlet is back of the pump next to the wall. It is for 1 inch iron pipe. A convenient pump for attaching hose for washing windows and buggies and sprinkling lawns and flowers. A pressure to exceed 100 lbs. can be maintained with this pump. Weight, 27 lbs.

SIZES AND PRICES.	
No. 14—2½ in. cyl., without air chamber	$3.25
No. 15—3 in. cyl., without air chamber	3.40
No. 16—2½ in. cyl., with air chamber	3.50
No. 17—3 in. cyl., with air chamber	4.00

Horizontal House Force Pump.

3-Inch Brass Lined Cylinder.

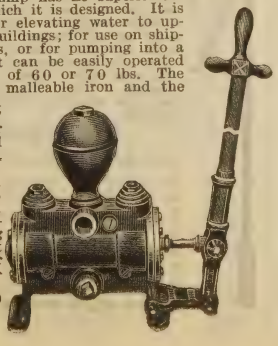


Fig. CC. This pump has no superior for the purposes for which it is designed. It is specially adapted for elevating water to upper apartments of buildings; for use on shipboard or in wineries, or for pumping into a pressure tank, as it can be easily operated to pump a pressure of 60 or 70 lbs. The handle is made of malleable iron and the handholds are well shaped. Capacity about 300 gal. per hour. Pump tapped on both sides for 1¼ in. suction and 1 in. discharge pipe. Floor space, 7½x28 in. Weight, 65 lbs. Brass plugs are provided for draining cylinder to prevent freezing and also for priming when necessary.

Price $10.00

Horizontal Water and Air Force Pump.

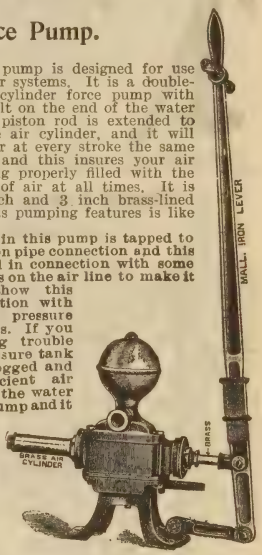


Fig. DD. This pump is designed for use in pneumatic water systems. It is a double-acting horizontal cylinder force pump with an air cylinder built on the end of the water cylinder, and the piston rod is extended to travel through the air cylinder, and it will positively pump air at every stroke the same as it does water, and this insures your air pressure tank being properly filled with the proper proportion of air at all times. It is made with 2½ inch and 3 inch brass-lined cylinders and in its pumping features is like Fig. CC.

The air cylinder in this pump is tapped to receive a ¼-inch iron pipe connection and this pump is to be used in connection with some ¼-inch check valves on the air line to make it pump air. We show this pump in connection with some of our air pressure water supply outfits. If you have been having trouble with some air pressure tank becoming water logged and not having sufficient air cushion to deliver the water properly, use this pump and it will overcome your difficulties.

No. 706—2½ in. brass-lined cylinder.....$12.50

No. 707—3 in. brass-lined cylinder.....$14.00

Double Acting Three Way Pump.

Fig. EE. Do you want a splendid double-acting hand pump for that well or cistern of yours so that you can connect an underground line to a supply tank? Look no further, for this is the pump. It is anti-freezing and the underground line is 3½ feet below the surface. You can loosen the union below the three-way and turn it in different directions. The upper cylinder is 2 inch, the air chamber 1¼ inch and the discharge pipe 1 inch. This pump is suitable for both deep or shallow wells by properly placing the pumping cylinder. If your pump works hard look after the cylinder first. Don't blame the pump until you have doctored the cylinder.

Weight, 80 lbs.

Price without pumping cylinder .	$6.20
No. 148—2½ in. iron cyl.	7.00
No. 149—3 in. iron cyl.	7.25
No. 150—3½ in. iron cyl.	7.75
No. 151—2½ in. brass-lined cyl..	7.75
No. 152—3 in. brass-lined cyl..	8.10
No. 154—2½ in. brass cyl. . . .	8.25
No. 155—3 in. brass cyl. . . .	8.40

Hand Force Pump.

Standard.

Fig. FF. Very many times we are asked to furnish a good reliable hand force pump, one that is strictly all right. To meet this demand we present this pump. It has a heavy cast stand with large air chamber. The piston rod is brass covered and works through the brass packing nut which screws into the jug pipe that reaches well down into the air chamber. The back outlet is just behind the spout and is for 1¼ inch pipe. When used on a 2 inch tubular well the bearer top and jug pipe can be removed in a moment's time and the wood rods and plunger drawn up through the top of the pump without removing it from the casing. This is a splendid feature. Remember with this pump standard you do not get any pipe, rod or cylinder. See Fig. GG for same pump fitted with cylinder. Tapped for 1¼, 1½ or 2 inch suction pipe. Will ship fitted for 1¼ inch unless otherwise ordered. Weight, 64 lbs.

Price $3.95

If Cock Spout is desired add 75c.

Hand Force Pump.

Set Length.

Fig. GG. For description of this pump see Fig. FF above. Note this pump has pipe, rod and cylinder attached and for wells 20 to 25 feet deep all you need in addition to it is a joint of 1¼ pipe. Joints of pipe usually run about 18 feet in length and the pump measures 4 feet from base to bottom of cylinder. It is anti-freezing. Order the required number of feet of pipe to reach to the bottom of your well, and when the pump arrives screw the pipe in the lower end of the cylinder, place it in the well, hold a bucket of water up to the spout, work the handle to prime it and it is ready to serve you for years. It may not work smooth and easy until the cylinder leathers get soft and pliable. For deep wells order extra rod and pipe and set the cylinder down in the water. Weight, 91 lbs.

SIZES AND PRICES.

No. 159—2½ in. iron cyl. $5.00
No. 160—3 in. iron cyl. 5.13
No. 161—3½ in. iron cyl. 5.62
No. 163—2½ in. brass-lined cyl.. 5.65
No. 164—3 in. brass-lined cyl.. 5.80
No. 165—3½ in. brass-lined cyl.. 6.60
No. 167—2½ in. brass cyl. . . . 6.25
No. 168—3 in. brass cyl. . . . 6.75
No. 169—3½ in. brass cyl. . . . 7.50

If cock spout is wanted add 75c.

Double-Acting Force Pump.

With or Without Pumping Cylinder.

Fig. HH. For durability and ease of operation we recommend this pump to you. It has a large air chamber of 1¼ inch pipe and a 1 inch discharge pipe. The plunger rod is ⅝ pipe. The upper cylinder is 2 inch seamless brass tubing with a durable plunger, making a splendid double-acting pump. The base is adjustable. This pump will go in a 5⅝ casing. We recommend the use of the brass or brass-lined pumping cylinders with force pumps and strongly urge you to put the cylinder down in the water, extending from upper to lower cylinder with 1¼ inch galvanized pipe. It will always work better. Hose connections with all force pumps. Weight of pump, only 59 lbs.

Price without pumping cylinder . . . $4.85
No. 93—2½ in. iron cyl. 5.50
No. 94—3 in. iron cyl. 5.60
No. 95—2½ in. brass-lined cyl. . . 6.25
No. 96—3 in. brass-lined cyl. . . 6.50
No. 97—2½ in. brass cyl. 6.60
No. 98—3 in. brass cyl. 6.85

King of all Force Standards.

Fig. II. Talk of durability and strength. We combine both in this pump. The stand is extra heavy with large air chamber. The piston rod is $1^{1}/_{16}$ inch cold-rolled steel shafting and the slide bar is carefully welded directly to it, making absolutely the best ever made. The handle bolts directly to the wrought iron slide bar and not to some little cast part that soon wears out. The slide bar works through a bushing that can be easily and cheaply replaced when worn out. The packing nut is extra heavy and large. The back outlet is for 1¼ inch pipe. The repair features are the same as Fig. FF. This pump especially adapted for use with pump jacks, gasoline engines and deep wells. Weight, 75 lbs.

SIZES AND PRICES.
(Pumping Cylinder Not Included.)

No. 195—1¼ in. tap, 6 in. stroke $4.64
No. 198A—1¼ in. tap, adj. 6-8-10 in. stroke 5.30
No. 199—2 in. tap, 6 in. stroke 4.64
No. 200A—2 in. tap, adj. 6-8-10 in. stroke 5.30

Same pump with plain spout 50c less.

The King.

Set Length Force Pump.

Fig. JJ. Everything said about Fig. II above applies to Fig. JJ. With Fig. H you do not get any pipe, rods or cylinder unless you order them extra. With this pump you get a complete 4 foot set length pump, suitable for wells 20 to 25 feet deep or less, by simply adding pipe below as described in Fig. GG. If you have a deep well and want the cylinder put down to the water, as it should be, order Fig. II with pipe and rod fitted for a well so many feet deep and tell how much water there is in the well. We can fit you out complete so that the pump will give perfect satisfaction. Specify whether the pipe shall be black or galvanized and the size and kind of a cylinder desired. Weight with 3 inch iron cylinder, 103 lbs.

SIZES AND PRICES.

No. 271—2½ in. iron cyl. $6.05
No. 272—3 in. iron cyl. 6.20
No. 273—3½ in. iron cyl. 6.56
No. 275—2½ in. brass-lined cyl. . 6.60
No. 276—3 in. brass-lined cyl. . 6.90
No. 277—3½ in. brass-lined cyl. . 7.75
No. 279—2½ in. brass cyl. 7.30
No. 280—3 in. brass cyl. 7.65
No. 281—3½ in. brass cyl. 8.45

This pump with plain spout for 50c less.

Siphon Spout Lift Pump.

Fig. KK. This pump is especially designed to fill the demand for a good low-priced pump. It is equally well adapted for cisterns and shallow wells or for deep wells. It is anti-freezing and easy running and has an adjustable base. Fig. KK has a large jug with siphon spout and is fitted with 1½ inch pipe down to the reducer below the base. From there the pipe is 1¼ inch for 2½ or 3 inch cylinders but is 1½ inch all the way to the cylinder when it is a 3½ inch. The bearer top is extra strong and caps half way down over the jug so that one set screw only is needed to hold it. This pump is strong and heavy and by lowering the cylinder to proper depth is very suitable for deep wells. It is a smooth, easy worker and will suit you if you want only a hand lift pump. We recommend it fully. Weight, 65 lbs., with 3 inch iron cylinder. All our pumps are anti-freezing.

SIZES AND PRICES.

No. 45—2½ in. iron cyl. $3.65
No. 46—3 in. iron cyl. 3.85
No. 47—3½ in. iron cyl. 4.35
No. 48—2½ in. brass-lined cyl. . . 4.30
No. 49—3 in. brass-lined cyl. . . 4.40
No. 50—3½ in. brass-lined cyl. . . 4.95
No. 51—2½ in. brass cyl. 4.85
No. 52—3 in. brass cyl. 4.95
No. 53—3½ in. brass cyl. 5.60

Wind Mill Top Lift Standard.

Fig. LL. Many times the top of a pump wears out, gets broken or is defective when the pipe, rods and cylinder are good. Our Fig. LL is the best to replace the old one. It is not expensive, yet durable and convenient. Can be attached to 1¼, 1½ or 2 inch pipe and when used on a 2 inch well the plungers and rods can be drawn up through the top of the pump for repair without removing the stand from the casing. For this same standard changed to a set length see Fig. MM below. This pump is suitable for any depth well by properly locating the pumping cylinder. If your well is more than 25 feet deep order this pump with necessary cylinder, pipe and rods so we may fit you up properly. Weight, 57 lbs.

SIZES AND PRICES.

No. 180—1¼ in. tap, 6 in. stroke $2.95
No. 182—1¼ in. tap, 10 in. stroke 3.40
No. 183A—2 in. tap, 6 in. stroke 2.95
No. 184—2 in. tap, 10 in. stroke 3.40

Hand or Wind Mill Lift Pump.

Fig. MM. We show here the set length pattern of Fig. LL. Suitable as it is here for wells 20 to 25 feet deep or less by adding pipe below the cylinder. These pumps are especially desirable where a windmill is used and the water supply is not to be forced anywhere. An ordinary lift pump will work easier than a force pump because the water flows out perfectly free. If you do not need a force pump we would recommend the regular lift pump to you. Our cylinders, the most important part of any pump, are carefully made so that all our pumps will give satisfaction. They are simple in construction and therefore easily repaired. The leathers used are the best oak tanned. Weight with 3 inch iron cylinder, 66 lbs.

SIZES AND PRICES.

No. 235—2½ in. iron cyl. $3.81
No. 236—3 in. iron cyl. 3.95
No. 237—3½ in. iron cyl. 4.31
No. 239—2½ in. brass-lined cyl. ... 4.31
No. 240—3 in. brass-lined cyl. ... 4.60
No. 241—3½ in. brass-lined cyl. ... 5.40
No. 243—2½ in. brass cyl. 4.95
No. 244—3 in. brass cyl. 5.25
No. 245—3½ in. brass cyl. 5.95

Improved Hand Lift Pump.

Fig. NN. For general utility in shallow wells and cisterns we offer you this pump. It will cost you but little if any more than the cheap galvanized iron or wood cistern pumps that last but a season or two. This pump is solid, strong and durable and will last for years. The cast stand is a protection to the pipe that comes up in it to a point just below the spout. The bearer top is extra strong and has three set screws in it. The cylinders are just as well made for this pump as for any higher priced pump. Take our word for it that this pump is all right. It is suitable as it is for wells 20 to 25 feet deep or less. Lower the cylinder for deeper wells. See Fig. OO for the standard only for this pump. Weight, 62 lbs.

SIZES AND PRICES.

No. 18 —2½ in. iron cyl. $2.75
No. 19 —3 in. iron cyl. 2.90
No. 19A—3½ in. iron cyl. 3.23
No. 20 —2½ in. brass lined cyl. ... 3.25
No. 21 —3 in. brass-lined cyl. ... 3.50
No. 21A—3½ in. brass-lined cyl. ... 4.13
No. 22 —2½ in. brass cyl. 3.91
No. 23 —3 in. brass cyl. 4.33
No. 23A—3½ in. brass cyl. 4.88

Hand Lift Standard.

Fig. OO. Hundreds of people are wearing themselves out trying to operate by hand some great big lubberly windmill pump when a nice light easy running lift pump top like this would answer their every requirement. Throw that old top away. Sell it for junk and get almost enough to buy one of these with. You can't help but buy one if you will consult the price. This is the same top used on Fig. NN, shown in opposite column, and is all right every way. Tapped for 1¼, 1½ or 2 inch pipe as ordered, but shipped always for 1¼ unless otherwise specified. Weight, 40 lbs. Try one.
Price $2.05

Combined Lift and Force Pump.

Fig. PP. All the features of a single-acting lift pump and a single-acting force pump are combined in this pump. By comparison with Fig. KK you will note the similarlity in construction. This differs from Fig. KK in having a polished steel piston rod working through a brass packing nut, making a single-acting force pump. A small brass air cock fitted with a long brass stem is placed in the side of the jug just above the spout. Open this air cock and you have simply a lift pump. Close it and you have a force pump. The brass stem or tube extends up into the jug to prevent leaking from the air cock when it is open. Hose connections furnished with all pumps. A 2½ inch inside capped brass cylinder put on this pump fits it for use in a 3 inch pipe without having to cut off the pipe and dig a pit. If you want a combined single-acting force or lift pump buy this one. Weight, 69 lbs.

SIZES AND PRICES.

No. 63—2½ in. iron cyl. $4.20
No. 64—3 in. iron cyl. 4.35
No. 65—3½ in. iron cyl. 4.75
No. 66—2½ in. brass-lined cyl. .. 5.30
No. 67—3 in. brass-lined cyl. .. 5.55
No. 68—3½ in. brass-lined cyl. .. 5.90
No. 69—2½ in. brass cyl. 5.50
No. 70—3 in. brass cyl. 5.75
No. 71—3½ in. brass cyl. 6.20

Big Four Stock Pump. The Jumbo.

Fig. QQ. Are you looking for something that will get you "lots of water in a little bit?" Stop here. This is it. The Jumbo of them all. Just suited to a dot to that shallow stock well or cistern. It has a mammoth jug and big siphon spout. Two inch pipe and 4 inch cylinder. Of course it will get the water. Can't help it. Use 2 inch pipe below the cylinder. For wells not over 18 or 20 feet deep it works free and nice. The base on this pump is adjustable and the brace is wrought iron instead of cast. Four inch cylinders furnished with outside caps only. Remember we have pumps for all purposes. Weight with iron cylinder, 88 lbs.

SIZES AND PRICES.

No. 90—4 in. iron cyl. $5.30
No. 91—4 in. brass-lined cyl. ... 6.00
No. 92—4 in. brass cyl. 6.70

Perfection Spray Pumps.

Fig. RR. It is absolutely necessary to spray if you want best results. This conclusion admits of no argument. What shall you use to spray with? We offer you this brass pump because we know it will do your work. The barrels are of seamless brass tubing. The bottom is brass with brass gauze strainer. The valves are hard vulcanized rubber balls. The hose extra heavy 4 ply. The pressure, which is brought on the down stroke only, can easily be 75 to 125 lbs. The large air barrel and heavy pressure insure a continuous stream. The nozzles will throw a straight solid stream, a sprinkle or a fine mist. Every pump equipped with agitator to keep spraying solution stirred up. All parts coming in contact with the poisonous and acid liquids are brass, which is non-corrosive. Each pump fitted with 3 feet of hose and nozzles as described. For a small hand pump there is nothing better. See Fig. UU for heavier work.

Price as shown in cut $2.00
Extra if fitted with foot holder in place of bucket attachment. 15

Double Acting Force Pump.

Fig. SS. Look at that cut carefully and note the neatness and style of this pump. One and one-fourth inch air chamber and 1 inch discharge pipe. Two inch brass upper cylinder. Strong flat stand in place of base and brace. Well shaped handle. A pump suitable to be placed in the finest home and sprinkle the finest lawn. Very valuable in case of fire or washing buggies. Handy hose connection with all force pumps.

Select a suitable cylinder and place it at the proper depth and you will have a splendid outfit that will give you perfect satisfaction. Outside capped cylinders will always be shipped unless you order inside capped. Brass-lined cylinders have outside caps only. Weight, 76 lbs.

SIZES AND PRICES.

Price without pumping cylinder . .	$ 6.00
No. 121—2½ in. iron cyl.	6.85
No. 122—3 in. iron cyl.	7.00
No. 123—3½ in. iron cyl.	7.40
No. 124—2½ in. brass-lined cyl. .	7.70
No. 125—3 in. brass-lined cyl. .	8.00
No. 126—3½ in. brass-lined cyl. .	8.30
No. 127—2½ in. brass cyl.	8.10
No. 128—3 in. brass cyl.	8.30
No. 129—3½ in. brass cyl.	8.75

Single Acting Three Way Pump.

Fig. TT. We offer you here a splendid pump for hand and windmill use. It is single-acting with a brass-covered piston rod working through a brass packing nut. No work is done on the down stroke, as in a double-acting pump. The course of the water is changed from spout to tank line or reverse by simply throwing the malleable eccentric lever backward or forward. The three-way body or tank line connection is 3½ feet below the base. The discharge pipe is 1 inch and the tank line connection the same. The air chamber pipe is 1¼ inch. This is a well-balanced, strong and durable pump and will please you every way. Can furnish this pump built double-acting, having a 2 inch upper cylinder, if desired, at same price. Weight, 90 lbs.

SIZES AND PRICES.

Price without lower cylinder.	$6.50
No. 292—2½ in. iron cyl.	7.30
No. 293—3 in. iron cyl.	7.40
No. 294—3½ in. iron cyl.	8.00
No. 295—2½ in. brass-lined cyl. . .	8.05
No. 296—3 in. brass-lined cyl. . .	8.25
No. 297—3½ in. brass-lined cyl. . .	8.80
No. 298—2½ in. brass cyl.	8.30
No. 299—3 in. brass cyl.	8.50
No. 300—3½ in. brass cyl.	9.40

Double Acting Barrel Spray Pump

Fig. UU. Successful spraying depends not only on the solutions used but largely on the pump as well. To be fully convinced of the excellent qualities of this pump you have but to try it. Of all the thousands of them now in use not one was ever returned to the manufacturers because it was not as represented or would not work. The base, jug and bearer are cast in one solid piece. The upper and lower cylinders are both heavy seamless brass tubes. The plunger castings, cylinder cap, valve weight and screws, agitator pipe and tip and the cap for suction pipe are all brass. Five feet of strictly high-grade heavy hose and a full set of nozzles go with each pump with one lead, and double the amount with pumps having two leads. A solid stream can be thrown by this pump 50 to 60 feet from nozzle, and by using extension pipes all parts of vineyard or orchard can be easily reached. We urge the use of extension pipes. Pumps all fitted for both side and end of barrel. Weight, 26 lbs.

Price with 1 lead hose. $4.20
Price with 2 lead hose. 4.85
8 foot extension pipes, to be connected to the hose, threaded for any of the nozzles. 50

Peerless Three Way Pump

Fig. VV. No windmill pump now on the market has better talking or working points than our Peerless. It is double-acting, having a brass upper cylinder 1½ inches in diameter. This cylinder stands at the side of the pump, conveniently at hand for repair. The course of the water is changed by a simple shifting of the eccentric lever and the entire pump is symmetrical and durable. We furnish it regularly with the raised three-way, as shown in the main cut. This puts the water line 3½ feet below the base. In cold countries or where lines are now laid it is sometimes advisable to have the line lower down, so we furnish, on special order only, this pump with valve seat ell or water line coming out at bottom of pump as shown in small cut. This pump is adapted to wells of almost any depth and is the finest we have to offer. Use a 2½ inch cylinder or smaller for very deep wells. Weight, 88 lbs.

SIZES AND PRICES.

Price without lower cylinder.	$7.00
No. 334—2½ in. iron cyl.	7.85
No. 335—3 in. iron cyl.	8.00
No. 337—2½ in. brass-lined cyl. . .	8.55
No. 338—3 in. brass-lined cyl. . .	8.75
No. 340—2½ in. brass cyl.	8.85
No. 341—3 in. brass cyl.	9.10

Bolted Flange Three Way Pump.

For Deep Wells.

Fig. WW. This pump has a 1 inch brass packing tube in place of a double-acting cylinder or brass-covered piston rod. The plunger is fitted with two leathers in place of one, making a very durable piston. The bottom flange is held in place by four bolts and if necessary to remove the pump from the casing simply remove these four bolts and the pump is loose without unscrewing the flange from the pipe. The upper flange and packing tube is held in place by two bolts and is easily removed. The lower flange can be tapped for 1¼, 1½, 2, 2½ or 3 inch pipe and a plunger 2¾ inches in diameter or smaller can be drawn up through. Weight, 108 lbs., showing to you that it is a solidly built, durable pump.

SIZES AND PRICES.

No. 400—1¼ in. tap, adj. 6-8-10 in. stroke.	$7.60
No. 401—1½ in. tap, adj. 6-8-10 in. stroke.	7.60
No. 402—2 in. tap, adj. 6-8-10 in. stroke.	7.60
No. 403—2½ in. tap, adj. 6-8-10 in. stroke.	7.75
No. 404—3 in. tap, adj. 6-8-10 in. stroke.	7.78

AUTOMATIC REGULATING FORCE PUMP.

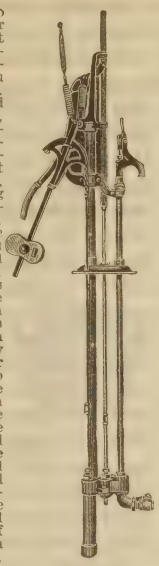


Fig. XX. Do you want a pump that will pull your mill out of gear when the tanks are full and hold it there until the water has been lowered five inches or more? No matter the time of day or where you may be our Fig. XX will do this. It is the finest pump of this kind made today. Perfectly reliable, strong and durable. The air chamber is 1½ inch pipe and the discharge 1 inch. The hydraulic cylinder, which is shown in the cut projecting below the bottom casting, is of seamless 12 gauge brass tubing and has a brass cage plunger, specially constructed, working in it. The horizontal all-brass check valve on the right is fitted with special rubber seat, insuring it to hold all back pressure from supply tanks. The regulating weight, which weighs 25 lbs., is near the platform, where it is easily adjusted. The tension spring and swivel are safeguards in case of severe winds. The bottom flange which bolts on to the heavy bottom casting can be tapped for 1¼, 1½ or 2 inch pipe. This pump is built only in the adjustable stroke and is single-acting. The piston rods are all brass-covered and the packing nuts good and heavy. We would caution you to be sure and anchor this pump securely to the platform or clamp it to the well casing where you have a drilled well. It will give the best of satisfaction when so anchored and save wear and tear on your mill as well as always insuring you a supply of water if there is any wind to run your mill. It is a positive success. Price below does not include a pumping cylinder, pipe, rods or float pan and valve.

IMPROVED TANK PUMP.

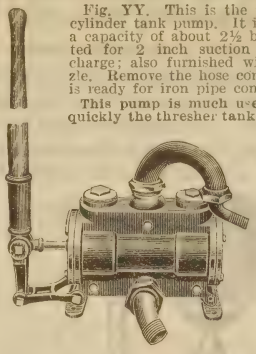


Fig. YY. This is the popular pattern 5 inch cylinder tank pump. It is double-acting and has a capacity of about 2½ barrels per minute. Fitted for 2 inch suction hose and 1 inch discharge; also furnished with a strainer and nozzle. Remove the hose connections and the pump is ready for iron pipe connections.

This pump is much used by threshers to fill quickly the thresher tank from a pond or ditch. It is also the best pump to use for emptying cess pools. See other pages of this catalogue for price of 2-inch suction hose and 1-inch or 1¼-inch discharge hose.

Price No. 406, iron cylinder.....$5.50

Price No 407, brass-lined cylinder..$7.60

The pumping cylinder should be at least 14 inches long and if inside capped should be 16 inches long.

This is the pump we use in our AP30 air pressure outfits. In the air pressure outfits we use a pump with a 3 inch hydraulic cylinder, tapped for a direct back pressure connection around the check valves. The weight on the handle is adjustable and when you have this coupled up, by adjusting the weight you can arrange it so that the weight will be forced up and the mill thrown out of gear at 60 lbs. pressure, and then when the pressure drops down to 40 or 45 lbs. the weight is heavy enough to throw the mill back into gear automatically and the mill will start pumping again.

This same pump can be used with a gasoline engine connected to the switch of the electric sparker and so automatically stop the engine working when the pressure in the tank has reached the desired figure, say 60 lbs.

Weight, 165 lbs.

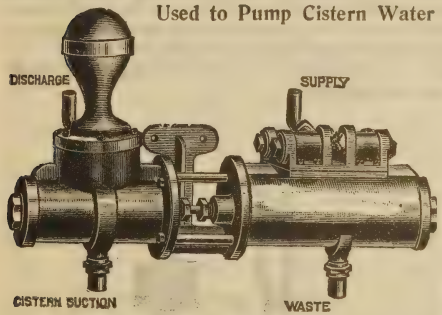
Price No. 381, 2½ in. hyd. cyl.....$21.00

Price, No. 382, 3 in. hyd. cyl..... 23.00

PERFECTION WATER LIFT.

AUTOMATICALLY OPERATED BY WATER PRESSURE.

Used to Pump Cistern Water or Increase City Water Pressure.



Can be connected into your house supply pipe and then all city water drawn through your faucets will operate this pump and cause it to pump cistern water into an attic tank.

The strongest, best constructed and most durable Water Lift made. An Iron Pump, brass lined throughout. Valves hold tight, will not cut; require no oiling. Few parts, and all parts easy of access. No inside stuffing, nuts, springs or packing. No water need be wasted.

This is a Water Lift that You can Depend Upon.

Satisfactory Operation and Durability Guaranteed

The knowledge gained by 25 years' experience in pump building enters into the construction of this pump.

We will furnish full instructions for installing these Automatic Lifts. The different sizes are adapted to different pressures.

Size of Lift.	Diam. of Cylinders		Size of Pipe to use.				Gallons per Hour Pumped	Gallons City Water Used.
	Power	Pump	Supply Pipe	Exhaust Pipe	Suction Pipe	Delivery Pipe		
No. 1.....	3 inch	3 inch	¾ inch	¾ inch	1 inch	¾ inch	293	296
No. 2.....	3 "	2½ "	1 "	1 "	1 "	1 "	214	296
No. 3.....	3 "	2 "	1 "	1 "	1 "	1 "	129	296
No. 4.....	2½ "	3 "	1 "	1 "	1 "	1 "	293	217
No. 5.....	4½ "	3 "	1 "	1 "	1 "	¾ "	293	431

Dimensions; Length, 23 inches. Height, 11 inches. Weight, 50 lbs.

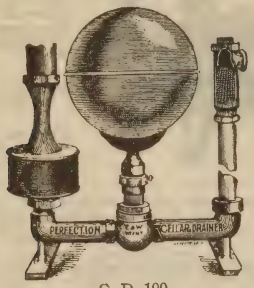
Price Nos. 1, 2, 3, and 4, $35.00. No. 5, $65.00.

We Show Cellar Drainers on Another Page of This Catalogue.

Perfection Cellar Drainer.

For Draining Boiler Pits, Cellars, Etc. Operated by Water, Steam or Air Pressure.

There are a great many cellars, boiler pits, wheel pits, etc., in which water accumulates, and this Cellar Drainer is a very reliable device to force the water out of such a place. For ordinary use we recommend the Automatic Perfection Cellar Drainer to be connected to City water pressure. We show herewith how this should be connected. When water accumulates in the pit, the float is lifted from the stop valve and City water passes through the Drainer and forces out the bilge water. This drainer starts and stops itself automatically, and it is so very simple in construction that it is not likely to get out of order. All parts of the Perfection Cellar Drainer are made interchangeable, and it is easily repaired should there be any occasion for doing so. These Automatic Cellar Drainer are in operation raising discharge water 15½ feet, although this is a very exceptional case. The Drainer can safely be depended on, however, to lift the discharge water one-fifth of the distance in feet of the City water pressure in pounds. In other words, with a fifty pound City water pressure, you could raise the discharge water ten feet.



C. D. 100
Automatic Perfection Cellar Drainer,

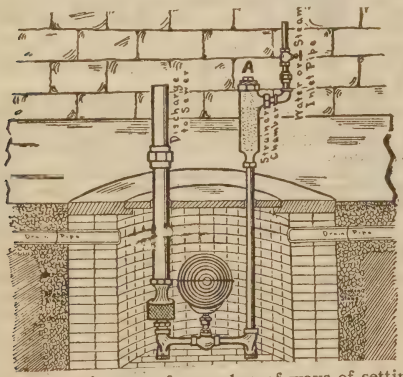
DIMENSIONS, CAPACITY AND PRICE LIST.

No.	Pipe Connections Inlet	Discharge	Gals. disc. per hr.	Wt. lbs.	Price
1	¾ in.	1 in.	400	19	$17.50
2	¾ in.	1½ in.	800	22	22.00
3	1 in.	2 in.	1500	28	26.00

Dimensions: 18 in. long, 12 in. wide, 20 in. high.

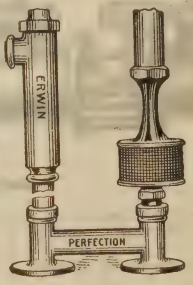
Cut No. C. D. 105 shows the Plain Cellar Drainer without the automatic attachment. We recommend this drainer for use under very heavy duty. It can be operated with water, steam or air pressure. Connection would be made into this same as on the automatic, but it would operate only when the valve on the power line is open, permitting either water, steam or air to blow through the Drainer. Where there is almost a constant discharge of water to be cared for, this Drainer is better than the automatic. These Plain Cellar Drainers are largely used to keep water out of ditches, excavations and foundations for plumbers and contractors. They can be easily operated by attaching a rubber hose to the City water supply and another from the discharge to the sewer and let it run as long as may be necessary to keep the excavation drained.

These Drainers, both automatic and plain, are noiseless, are very substantially built and have a larger capacity than other Drainer on the market.



Plan showing one of a number of ways of setting and connecting a Perfection Cellar Drainer.

NOTE—When information is desired or order is given, please state the estimated water or steam pressure. Height from bottom of Drainer pit to point where water is to be discharged. Plan to make the distance as short as possible.



No. C. D. 105.

"Perfection" Plain Cellar Drainer.

PRICES

No. 1	$12.00
No. 2	16.00
No. 3	20.00

Inlet, Outlet and Capacity same as for the Automatic Drainer.

Chart and full instructions for installing sent with each Drainer.

WELL AND PUMP SUPPLIES

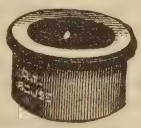
Finished Cast Steel Drive Shoes

(For Artesian and Tubular Wells)

No. 303. These drive shoes are made of steel forgings and have long recess, as shown by illustration, to prevent the pipe from spreading or breaking off at end of threads. They have inside shoulder to prevent pipe from being forced through the shoe. These forged steel wrought shoes should be used for all heavy driving.

Size, in...	2	2½	3	3½	4	4½	5	6	8
Price, ea..	$0.48	.78	1.35	2.50	2.75	4.25	4.75	6.00	8.25

Driving Caps



No. 302. For Drive Well Points

Size..	1¼	1½	2	2½	3
Price.	$0.14	.17	.32	.57	.70

Pump Cylinders

No. 507. The pump cylinder is the most important part of the pump. The cylinder is the part of the pump that raises the water and unless it is well made and the plungers and the valves all fit properly, the most expensive working head and other parts of the pump are rendered of no account.

A 10″ cylinder has a 6″ stroke, a 12″ cylinder has a 8″ stroke, a 14″ cylinder has a 10″ stroke, a 16″ cylinder has a 12″ stroke, an 18″ cylinder has a 14″ stroke.

Iron cylinders are always furnished with outside caps, unless otherwise specified. The inside caps are furnished when specified.

Brass lined cylinders are furnished with only the outside caps.

All brass cylinders are furnished with outside caps unless otherwise specified. The inside caps can be furnished.

All 2½″ and 3″ cylinders are tapped for 1¼″ standard pipe. 3½″ cylinders for 1½″ standard pipe.

LENGTH AND PRICES.

size	Kind	10 IN.	12 IN.	14 IN.	16 IN.	18 IN
2½	Iron	$0.87	$1.20	$1.30	$1.40	
2½	Brass Lined	1.80	1.92	2.10	2.26	
2½	Brass	3.10	3.20	3.67	4.00	
3	Iron	1.00	1.40	1.55	1.65	$1.75
3	Brass Lined	2.05	2.20	2.35	2.55	2.77
3	Brass	3.38	3.50	4.06	4.38	4.57
3½	Iron	1.40	1.80	2.00	2.25	2.50
3½	Brass Lined	2.43	2.55	2.77	3.05	3.35
3½	Brass	4.20	4.45	5.25	5.55	5.88
4	Iron	1.80	2.30	2.60	2.90	3.20
4	Brass Lined	2.93	3.22	3.55	3.95	4.35
4	Brass	5.40	5.63	6.63	7.00	7.46

Larger sizes quoted on application.

Wood Pump Rods

Our wood sucker rods are made of the best white ash. The prices include all necessary forged wrought iron couplings attached and are based on standard lengths, 16 to 20 ft. each. A shorter length than one of these standard lengths, cut to fit a specified length of pump will be charged for the same as one of the standard lengths and an extra charge made for the cutting and fitting.

Size Square Wood Sucker Rod.	Inside Diam. of Deep Well Pump.	Price of Rod with Couplings Per Foot.	Price of Couplings Only Per Pair.
1 inch	1¼ inch	$0.07½	$0.65
1¼ inch	2¼ inch	.10	.80
1½ inch	2¾ inch	.13	1.00
2 inch	3¼ inch	.16	1.60
2¼ inch	3¾ inch	.24	2.50
2½ inch	4¼ inch	.30	3.60
3 inch	4¾ inch	.40	4.20
3½ inch	5¼ inch	.54	5.85

Galvanized Steel Pump Rod

Our stiff, polished steel pump rod is thoroughly galvanized, shipped in 18 ft. lengths, each length threaded and fitted with couplings.

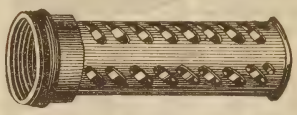
⅜ inch	.02½c
7-16 inch	.03½c
½ inch	.04½c

Drive Well Points With Brass Jackets.

They are made of wrought iron pipe, and are thoroughly galvanized outside and inside after the holes are punched. They have large filtering surface and are in every respect equal to the best made.

Diam. Inch	60 Gauge L'gth Inch	Price Each	100 Gauge Price Each	Diam. Inch	60 Gauge L'gth Inch	Price Each	100 Gauge Price Each
1¼	24	$0.60	$1.30	1½	42	$1.40	$3.10
1¼	30	.75	1.65	1½	48	1.80	3.50
1¼	36	.93	1.95	2	30	1.50	2.6[illegible]
1¼	42	1.05	2.25	2	36	1.70	3.1[illegible]
1½	30	.95	1.90	2	42	2.00	3.6[illegible]
1½	36	1.10	2.30	2	48	2.20	4.1[illegible]

Malleable Strainers

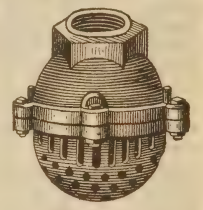


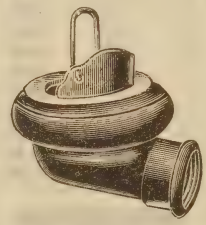
To be used on the end of well and cistern pipe covered with brass wire cloth.

Size, inches	1	1¼	1½	2
Price, each	$0.19	$0.20	$0.22	$0.32

Foot Valves and Strainers

Size, inches.	Price, each.
1¼	$0.35
1½	.48
2	.65
2½	.90
3	1.00
4	1.85





Water Conductors

They are used to conduct water from spout of pump to tank, and are made with swivel head, so water can be carried in any direction.

Price Each..... 30c

Galvanized Steel Hoze Clamps for Steam and Water Hose

Size Hose, Inches.	Water Hose, Price each.	Steam Hose Price each
½	$0.02	$0.06
¾	.03	.08
1	.04	.10
1¼	.05	.12
1½	.06	.13
2	.08	.16
2½	.18	.16

Note.— Be sure and state the number of plier as well as the size of hose on which you are to use these clamps.

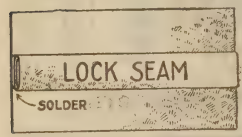
STEEL TANKS

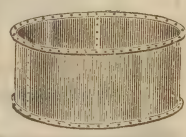
Galvanized Steel Tanks

Made of No. 20 gauge Standard Galvanized Steel. The tops are bound with Angle Steel. Bottoms of all tanks are secured between two pieces of flat steel or bound with angle steel according to the size of tank. Where size requires it the sides are firmly braced. Every tank is gauranteed to its full capacity and not to leak or break down. Made with lock seams as shown in illustration.

All Galvanized Tanks shipped Direct from Factory, Northern, Ind.

Galvanized Round Steel Tanks





No.	Diam.	Hgt. Feet.	Cap. Bbls.	Wght. Lbs.	Price.
1171A	20 in.	24	32	22	$2.00
1172A	24 "	24	47	26	2.50
1173A	30 "	24	73	34	2.75
1301A	3 ft.	2	3½	65	4.25
1302A	4 "	2	6	90	5.25
1303A	4 "	2½	7	100	5.75
1304A	4 "	3	9	115	6.45
1305A	4 "	4	12	135	7.50
1306A	4 "	5	14	165	10.00
1307A	4 "	6	18	190	12.50
1308A	4 "	8	25	225	13.75
1309A	5 "	2	9½	115	6.75
1310A	5 "	2½	12	130	8.00
1311A	5 "	3	14	140	9.00
1312A	5 "	4	19	170	11.00
1313A	5 "	5	24	200	13.50
1314A	5 "	6	28	230	15.00
1317A	6 "	2	14	160	9.75
1318A	6 "	2½	17	170	11.00
1319A	6 "	3	20	190	11.50
1320A	6 "	4	27	235	14.50
1321A	6 "	5	34	260	17.00

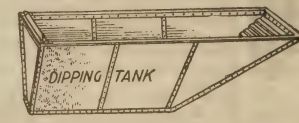
Galvanized Round End Steel Tanks

No.	Wdth Feet.	Hght. Feet.	Lngth. Feet.	Cap. Bbls.	Wght. Lbs.	Price.
1401B	2	2	4	3¾	63	$ 4.25
1402B	2	2	5	4¾	76	4.65
1454B	2	1	4	1	45	3.25
1403B	2	2	6	6	89	5.50
1405B	2	2	8	8	120	6.50
1406B	2	2	10	9½	135	7.25
1410B	2½	2½	8	12	140	8.00
1412B	3	2	10	14	165	9.50
1417B	4	2	10	19	190	12.00
1422B	4	2½	10	24	215	14.50
1420B	4	2	16	30	300	18.00
1427B	5	2	16	38	380	20.50

Above are set up ready for use.

Standard Dipping Tank

For Dipping Cattle, Sheep, and Hogs.



Our Standard Galvanized Steel Dipping Tanks for the dipping of stock are the strongest and best constructed tanks on the market.

Tanks numbering from 1700 to 1703 inclusive are intended for dipping by hand, sheep and hogs in small numbers.

Tanks numbering from 1710 to 1737 inclusive are furnished with roller to assist in placing animal in tank without injury, and at opposite end a ladder is provided to assist animal in leaving tank and reaching dripping board.

Tanks numbering from 1700 to 1724 are shipped set up ready for use; tanks numbering from 1725 to 1737 inclusive are shipped knocke ddown flat unless otherwise ordered. Any of the above tanks can be shipped knocked down if desired, taking a very low rate of freight.

For cattle dipping we recommend Tanks **Nos.** 1734, 1735, 1736 and 1737. No. 1734 has a slant of eight feet at ladder end and two feet at roller end. No. 1735 has a slant of 3 feet at roller end and 15 feet at ladder end. Nos. 1736 and 1737 have a slant of ten feet at the ladder end and 3 feet at the roller end.

All prices are based on tanks as made of No. 20 galvanized steel. If No. 18 metal is wanted add 20 per cent; if No. 16 is wanted add 40 per cent to list price.

No	Height, Ins.	Length at Top. Feet.	Length at Bottom. Feet.	Width at Top. Inches.	Width at Bottom. Inches.	Weight, Pounds.	Price.
1700G.....	24	5	4	30	18	92	$ 6.25
1701G.....	30	5	4	30	18	108	7.15
1702G.....	36	5	4	30	18	125	8.00
1703G.....	36	6	4	30	18	128	8.25
1710G.....	36	5	3	24	12	115	7.40
1711G.....	42	6	3	30	12	140	8.80
1712G.....	48	8	6	20	8	200	12.65
1713G.....	48	8	5	24	8	210	13.20
1714G.....	48	8	4	30	8	185	13.00
1715G.....	48	8	6	30	8	210	12.60
1716G.....	48	10	5	24	8	245	14.85
1717G.....	42	10	5	30	12	240	13.75
1718G.....	48	10	5	30	8	250	15.40
1719G.....	48	10	5	30	12	255	15.70
1720G.....	48	10	6	24	8	265	16.00
1721G.....	48	10	8	24	8	280	16.50
1722G.....	48	10	8	30	8	285	17.10
1723G.....	48	14	10	30	8	350	23.60
1724G.....	48	15	10	30	12	380	30.00
1725G.....	48	20	15	30	12	525	35.00
1726G.....	48	25	20	30	12	670	40.00
1727G.....	48	30	25	30	12	815	45.00
1728G.....	48	35	30	30	12	960	57.50
1729G.....	48	40	35	30	12	1100	60.00
1730G.....	48	45	40	30	12	1250	62.50
1731G.....	48	50	45	30	12	1400	68.00
1732G.....	48	55	50	30	12	1550	73.00
1733G.....	48	60	55	30	12	1700	79.00
1734G.....	96	25	15	48	24	1300	66.00
1735G.....	96	33	15	36	20	1600	75.00
1736G.....	120	30	17	48	24	1650	85.00
1737G.....	120	35	22	48	24	1900	100.00

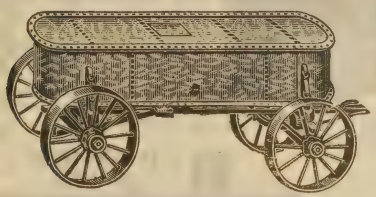
GALVANIZED STEEL STORAGE TANKS.

The sizes referred to below are all too large to be shipped set up ready for use except on flat car. Unless otherwise specified they are always shipped knocked down, taking a low rate of freight. Every K. D. tank that we ship is set up at our factory in order that it may be carefully inspected. Before knocking it down and crating it every section is properly marked to facilitate erection. When it leaves our factory we know that every rivet hole is in the right place and that every iron is bent to the proper circle. We desire to call special attention to our line of Standard Storage Tanks, in the manufacture of which we acknowledge none superior.

We recommend that Tank No. 150 be built of No. 20 material; Nos. 151, 152, 153 and 154 of No. 18; Nos. 155, 156 and 157 of No. 16. Weights as given below are based on No. 20 metal.

No,	Diam. Feet.	Hght. Feet.	Cap. Bbls.	Wgt. Lbs.	Price, Made of 20 Gauge.	Price, Made of 18 Gauge.	Price, Made of 16 Gauge.
150C	6	6	41	340	$20.00	$24.00	$28.80
151C	6	8	54	430	24.00	28.60	34.25
152C	8	5	60	475	25 00	30.00	36.00
153C	8	6	72	530	30.00	36.00	43.00
154C	8	8	96	640	36.00	43.50	52.50
155C	8	10	120	750	.....	48.00	58.00
156C	10	8	150	875	.....	54.00	65.00
157C	10	10	180	970	.....	63.00	76.00

NEW GALVANIZED STEEL WAGON TANKS



For supplying portable engines with water; for gathering maple sap; for hauling whey from creameries, liquid manure, etc.

The construction of this Galvanized Steel Wagon Tank is practically the same that has made so popular the Galvanized Steel Stock and Reservoir Tanks. The sides and bottom are flanged together and riveted between two strips of 1x⅞-inch metal, the rivets being placed only three inches apart. The top or cover is made of galvanized steel and fastened to the tank by flanging the sides and top together and riveting or bolting between 1x⅞-inch metal. In center of top we place a 14-inch round manhole with a close fitting cover of galvanized steel arranged so that it can be readily opened to fill tank. Location and size of man hole may be changed to suit purchaser. The tank is stayed underneath cover by one-inch angle steel braces from side to side which also serve to support cover and to strengthen it. The sides are braced by angle steel braces fastened both at top and bottom. Cleaning-out hole is placed either in center of bottom at rear end or in rear end close to bottom.

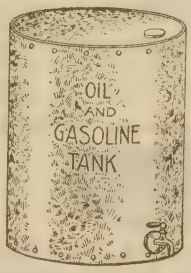
Price List of Galvanized Steel Wagon Tanks.

No.	Width Feet,	Hght. Feet,	Lngth Feet.	Cap. Bbls.	Wght. Lbs.	Price.
E15	3	2	10	14	236	$13.50
E14	3	2	8	12	191	12.00
E13	2½	2	8	9¾	168	10.00
E12	2	2	8	7¼	155	8.25
E11	2	2	6	5¾	120	7.00

Unless otherwise specified in your order we place a 14-inch manhole in center of top and put a one-inch cleaning-out hole in center of rear end close to bottom, in which a threaded nipple is inserted and to which either hose or pipe may be connected, or opening can be closed with screw cap or plug.

STEEL TANK.

No.	Wdth, Feet.	Hght, Feet.	Lngth, Feet.	Cap. Bbls.	Wght. Lbs.	Price.
1501E.	2	2	4	3¾	75	$4.25
1502E.	2	2	5	4¾	90	4.75
1503E.	2	2	6	5¾	100	5.50
1505E.	2	2	8	7½	130	8.00
1507E.	2	2½	8	9½	135	9.00
1508E.	2½	2	8	9½	150	8.75
1510E.	2½	2½	8	12	170	9.75
1511E.	3	2	8	11½	160	9.40
1512E.	3	2	10	14	190	11.00
1513E.	3	2½	8	14	190	10.25
1514E.	3	2½	10	18	215	12.25
1515E.	3	3	10	21	240	13.40
1516E.	4	2	8	15	190	11.50
1517E.	4	2	10	19	225	13.00
1521E.	4	2½	8	17	210	12.50
1522E.	4	2½	10	24	250	14.50
1524E.	4	3	8	23	230	13.25
1525E.	4	3	10	29	270	16.00



OIL AND GASOLINE TANKS.

Our Oil and Gasoline Tanks are made of No. 20 galvanized steel. They are very strong and durable, and will stand much hard usage. We place a screw cap opening in top to fill by and a faucet in the side near bottom to draw off contents.

No.	Inside Diam. Inches.	Height, Inches.	Capacity, Gallons.	Price.
185F.	18	30	32	$ 3.00
186F	24	40	58	3.60
187F	24	36	70	4.60
188F	34	30	117	5.50
189F	34	36	140	6.00
190F	34	42	165	7.25
191F	34	48	185	8.00
192F	40	42	225	9.00
193F	40	48	260	10.00

EXTRA STRONG STEEL HOG TROUGHS.

No. 434.

Made of heavy ¼-inch galvanized boiler steel. Best shaped tank manufactured; absolutely indestructible, clean and sanitary. All metal well riveted. Stands strong and firm on the ground. Every Farmer should have them. Satisfaction guaranteed.

Regular price from $2.50 to $5.00. Weight, 40 pounds.

5 feet long, 12 inches wide, 6 inches deep. Price each $1.50

6 feet long, 16 inches wide, 8 inches deep. Price each $2.25

6 feet long, 20 inches wide, 10 inches deep. Price each $2.75

Small Size, Light Weight Galvanized Hog Troughs.

2 feet long, 9 inches wide, 5½ inches deep. No. 435 Price each $0.35

GALVANIZED STEEL HOG TROUOHS.

They are used for stock watering troughs, but for hog troughs we place across top 10 inches apart, iron bars which keep hogs from pushing along in the troughs. The Trough is Made of All One Piece Material.

They are made oval or half round, 14 inches wide across top and 8 inches deep. We furnish them in lengths as shown below with or without crossbars.

They are made of No. 20 gauge galvanized steel. The ends are provided with angle steel truss, in the bottom, of which are bolt or screw holes so trough can be fastened to floor, or, if set in a field, may be bolted to a scantling.

Sizes and Prices.

No. 1T. 2 feet long, weight, 20 lbs. With crossbars.....$1.50

No. 2T. 4 feet long, weight, 30 lbs. With crossbars.....$1.75

No. 3T. 5 feet long, weight, 35 lbs. With crossbars.....$1.95

No. 4T. 6 feet long, weight, 40 lbs. With crossbars.....$2.10

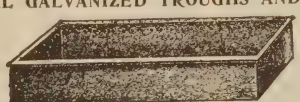
No. 5T. 8 feet long, weight, 50 lbs. With crossbars.....$2.75

No 6T. 10 feet long, weight, 60 lbs. With crossbars.....$3.50

No. 7T. 12 feet long, weight, 65 lbs. With crossbars.....$4.00

No. 8T. 16 feet long. weight, 75 lbs. With crossbars.....$5.50

SPECIAL GALVANIZED TROUGHS AND PANS.



Especially adapted for sap pans, milk troughs, watering and feed troughs. Above illustration shows manner of construction, the sheet steel being turned up around edges to form sides and ends, and the top surrounded with angle steel.

Nos. 1271 to 1281, inclusive, are designed for sap pans, but as they are also used for other purposes we list them without handles. If handles are wanted, add 15 cents to list price for each handle. The sizes referred to are made from one sheet of steel without any seam in bottom.

No.	Width In.	Hgth. In.	Lgth. In.	Cap. Gals.	Whgt. Lbs.	Price.
1271D. .	24	6	48	30	25	$1.75
1272D. .	24	6	60	37	30	2.00
1273D. .	24	6	84	52	40	2.65
1274D. .	30	6	84	65	48	3.00
1275D. .	30	6	108	84	60	3.50
1276D. .	36	6	84	79	54	3.25
1277D. .	36	6	108	101	68	4.00
1278D. .	26	8	80	60	48	3.00
1279D. .	26	8	104	78	60	3.50
1280D. .	32	8	80	72	54	3.25
1281D. .	32	8	104	110	68	4.00
1282D. .	22	10	76	72	58	3.00
1283D. .	22	10	96	91	67	3.75
1284D. .	28	10	76	92	60	3.50
1285D. .	28	10	96	117	80	4.25
1286D. .	28	10	102	146	98	5.00
1287D. .	12	12	48	30	30	2.00
1288D. .	12	12	72	52	42	2.65
1289D. .	12	12	96	60	55	3.25
1290D .	12	12	120	75	68	4.00
1291D. .	18	12	72	67	55	3.25
1292D. .	18	12	96	90	68	3.75
1293D. .	24	12	48	60	42	3.00
1294D. .	24	12	72	90	58	3.75
1295D. .	24	12	96	120	78	4.50
1296D. .	24	12	120	150	96	5.00

STEEL ROUND BOTTOM TANKS.

Made of 20 gauge steel, with steel trusses to support them in position.

No.	Width ft.	Depth in.	Lgth. ft.	Cap. bbls.	Wght. lbs.	Price.
160H....	2½	18	10	8	130	$ 7.50
161H....	2	20	10	8	150	7.50
162H....	2½	18	8	6	130	6.50
163H....	2	20	8	6	130	6.50
164H....	1½	8	10	2	60	2.75
165H....	2	12	10	5	100	5.00
166H....	1½	14	10	5	100	5.00
167H....	2	12	8	4	90	4.40
168H....	1½	14	8	4	90	4.40
169H....	3½	22	10	13	175	9.00
170H....	3	24	10	13	175	9.00
171H....	3½	22	8	10	165	8.75
172H....	3	24	8	10	165	8.75
173H....	4	24	10	20	200	12.00
174H....	4	24	8	16	185	10.50

GALVANIZED TANK HEATERS.

Has Dumping Grate. Large Fire-Box. Ashes Removed Without Taking Heater Out of Tank. Galvanized Pipe with Wire Spark Arrester and Hood to Shelter Rain.

How They are Made.

It is 24 inches high. The fire-box is 12 inches in diameter and 20 inches long. The outside wall or bottom is made of heavy galvanized steel, which is guaranteed not to rust. The fire-box is made of No. 20 annealed steel, and extends from grate to top of outside casing. Four inches from the bottom is placed a cast-iron grate. This grate is so constructed by a blank space of almost one-half the surface of it, that in using wood for fuel the embers cannot all drop through and cause the fire to go out easily but it will hold fire equal to any stove made.

Price each.....$2.50

GALVANIZED COOKER.

Our No. 0 Cooker.

The furnace (or fire-box) and fire-flue under the water tank is heavy sheet steel with cast-iron grate, fire-walls and door, 2 ft. 4 in. by 6 ft. long, the fire-box being of large enough capacity that one fire of wood, once renewed, is sufficient to cook one boiler of wheat or anything desired to cook. The fire-flue extends from the fire-box the full length and width of the boiler, and is 4 in. deep, in the center of which is a partition which carries the heat under one-half of the bottom of the boiler from the fire-box to the rear end of same, then back toward the fire-box on opposite side to where the draft enters the smoke-stack, which is common 6-inch stove-pipe. The Boiler is made of heavy galvanized steel, 6 ft. long, 2 ft. 4 in. wide and 18 in. high. Price.....$12.75

Our No. 1 Cooker.

is made same as No. 0, only it is but 5 feet long and 2 ft. wide and holds 4 bbls. Wt. 200 lbs.....$10.90

Our No. 2 Cooker

is made same as No. 1, only it is but 4 feet long and holds 3 barrels. Weight, 165 pounds. Price..$9.65

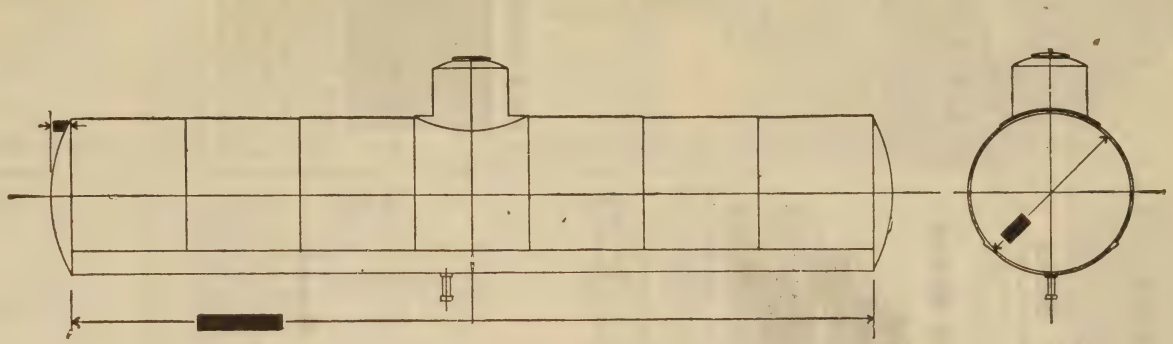
Our No. 3 Cooker

is made same as No. 2, only it is 4 ft. long and the boiler is 10 in. deep, holds 1½ bbls., Wt 140 lbs..$9.20

800 STEEL STORAGE TANKS.

6,000 to 9,000 GALLONS CAPACITY

No. T37. These Tanks came off of railroad tank cars, that were used for transportation purposes on all railroads. They are double riveted, well braced, made of ¼ in. steel and built for hard and unusually severe service. They were sold to us because they were found to be of smaller capacity than the present requirements of the company using them, and this is the only reason they are now offered. They are practically as good as new, as every tank before shipment is tested, repainted, carefully inspected, and, in fact, put in absolutely guaranteed first-class condition for storage purposes.



Each tank has a dome of standard size proportioned to its dimensions; also a 15 in. screwed manhole on top and 3 in. outlet on the bottom which is securely capped. They are suitable for the storage of oils, water or liquids of any kind.

Some of these tanks are equipped with heater coils. We can also furnish you with tanks of larger and smaller dimensions, and will be pleased to hear from you in regard to your requirements in this line.

We have these tanks located at Whiting, Indiana; Lima, Ohio; Cleveland, Ohio; and Buffalo, New York; dimensions of which are 25 feet long by 76 inches diameter, approximating 6,000 to 6,200 gallons each.

OUR BELTING DEPARTMENT

We carry in stock three complete lines of rubber belting. Each grade is carefully made up of the best canvas and rubber that can be secured with the view of giving our customers the best possible values and satisfaction. In omking your selection we earnestly advise that you note carefully the general purposes for which we recommend the use of our various grades and order accordingly by following this suggestion we can, without a shadow of doubt, supply your requirements and will guarantee our different grades to give full satisfaction if used for the purpose designated.

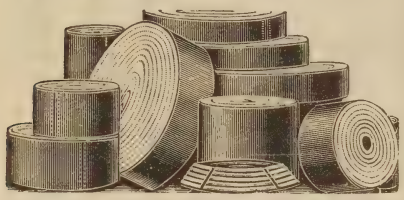
Endless Rubber Belt

We show the usual widths and lengths generally carried in stock, which are described under Lot No. R. E. B1. In addition we can make up any width or length in either of our Standard, Star or Premium brands that you may require. These would be made up specially on your order and shipped direct from our factory. **Always allow three feet extra** on account of the lap, and bear in mind that owing to the fact that belts of this kind are made up specially, which will occasion a delay of about one week.

Stitched Rubber Belts

These we can also furnish in either Standard, Star and Premium brands, which would necessarily make up specially, and would therefore be subject to the same delay in shipping as the endless belts. For stitching, be sure and allow ten per cent extra in cost to cover stitching. The stitching, which runs the long way of the belt, is done before the outer rubber covering is applied and serves to greatly strengthen the belt and increases its lasting qualities.

Lot 1---Standard Brand



This belt is recommended for only light work and is generally termed an agricultural belt. It can also be used for conveyor purposes, but only for light loads.

The best low-priced belt on the market.

Width Inches	2 Ply per ft. Cents	3 Ply per ft. Cents	4 Ply per ft. Cents	5 Ply per ft. Cents	6 Ply per ft. Cents
1	1¾	2¼	....	....	....
1½	2¼	3¼	....	....	....
2	3¼	4¼	5¼	....	....
2½	4½	5½	6½	....	....
3	5	6½	8	....	....
3½	...	7½	9¼	....	....
4	...	8½	10½	....	....
4½	...	10	12	....	....
5	...	11	13	....	....
6	...	13	16	19	....
7	...	15	18½	23	....
8	...	18	21	26	32
9	...	...	25	30	36
10	...	...	27	33	40
12	...	...	33	41	49
14	...	...	39	48	58

Lot 2---"Star" Brand

The best general purpose belt on the market for light and medium power and conveying purposes. We do not recommend this belt for heavy work, such as saw mills or other work where belting is required to run constantly and transmit heavy horse power. But for other general purposes it will give you first class service.

Width Inches	3 Ply Per ft.	4 Ply per ft.	5 Ply per ft.	6 Ply per ft.
1	3¼	4¼	...	..
1¼	4	5¼	...	..
1½	4½	6	...	..
2	...	7½	...	..
2½	7¼	9¼	...	..
3	9¼	11	13¼	..
3½	10½	13	16	..
4	12	15	18	22
5	....	18	23	27
6	....	22	27	32
7	...	25	32	38
8	...	30	37	54
9	...	33	41	50
10	...	38	47	56
12	...	46	57	68
14	...	54	67	82
16	...	62	79	94

Lot 3---"Premier" Brand

We recommend this belt for all heavy power transmission. It is used extensively in saw mills, quarries and other places where a belt is subjected to hard usage. Bear in mind that in order to produce your full required horse power that a good belt, one that is strong and tough, is jus as necessary as an engine that will deliver the power required. Therefore if you require a first-class belt, buy our Premier Brand and by doing so you will do away with your belt troubles.

Width Inches	4 Ply per ft.	5 Ply per ft.	6 Ply per ft.
4	$0.21	$0.26	$0.32
5	.26	.33	.39
6	.31	.39	.31
7	.37	.46	.55
8	.42	.53	.63
9	.48	.59	.71
10	.56	.67	.80
11	.59	.74	.89
12	.65	.81	.98
13	.71	.88	1.07
14	.77	.96	1.16
15	.83	1.04	1.25
16	.89	1.11	1.34

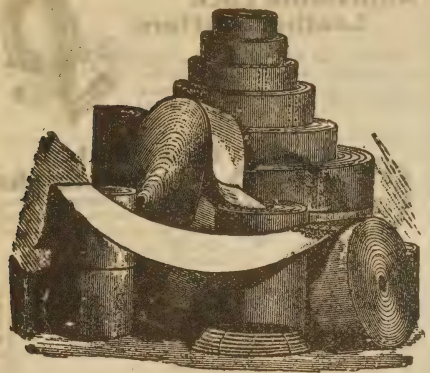
Red Stitched Canvas Belt

Brand new and guaranteed. Made of heavy canvas, woven very hard, giving it great strength. The rows of stitching are very close so that the plies will not separate. It is painted red with a special composition which makes it waterproof, and it is not affected by heat or cold. This belt is thoroughly stretched during the process of manufacture. A belt for saw mills, mines, quarries, etc.

Width Inches	4 Ply per ft. Cents	6 Ply per ft. Cents
1½	4	..
2	5½	..
2½	7	..
3	8¼	12
3½	9½	13½
4	11	16
4½	11	16
5	13½	20
6	16½	24
7	19	26
8	21½	32
9	25	36
10	27	40
12	33	48
13	...	54
14	...	58
15	...	62
16	...	66
18	...	74

LEATHER BELTING BARGAINS

New Leather Belts



Lot No. LB05. We are constantly buying at Manufacturers, Sheriff, Receivers and other sales, high grade Leather Belting, suitable for factories, mills and all general purposes. Our method of buying in this line enables us to offer leather belting much of which is the product of the best manufacturers in this line. We guarantee satisfaction on any leather belt that you buy from us. We will ship on approval, and if belt is not satisfactory, return it to us after inspection.

NOTE.—If you require a belt to run on quarter twist, add 20 per cent.

Lot No. 5.

Width Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width, Inches	Single Thick Per Ft.	Double Thick Per Ft.
1	$0.05	....	4	.26	.52
1¼	.07	....	4½	.29	.58
1½	.09	....	5	.32	.64
1¾	.10½	....	6	.36	.72
2	.12	$0.24	7	.45	.90
2¼	.14	.28	8	.52	1.04
2½	.16	.32	9	....	1.20
2¾	.18	.36	10	....	1.30
3	.19	.38	12	....	1.55
3½	.22	.44	14	....	1.80

Endless Red Stitched Canvas Belts

Lot No. SCE8. Brand new and guaranteed. These belts are especially recommended for Threshers or for any other purpose where a belt is exposed to the weather. Actual lengths are three feet shorter than specified as it requires the price of three feet for lap and labor in making belts endless.

All 4 Ply.

Width, In.	Length, Feet						
	80	100	120	130	140	150	160
6	$13 20	$16.50	$19.75	$21.40	$23.00	$24.75	$26.40
7	15.20	19.00	22.80	24.70	26.60	28.50	30.40
8	17.20	21.50	25.80	27.95	30.10	32.25	34.40
9	20.00	25.00	30 00	32.30	35.00	37.50	40.00

Endless Stitched Rubber Belts

Lot No. SRE9. We offer these belts to fill the demand for endless rubber thresher belts, which are used to considerable extent in some localities. These belts are made of the best material and workmanship. However, rubber belts are not guaranteed for thresher purposes and for this purpose we recommend the use of stitched canvas belts. Actual lengths three feet shorter than specified. **All 4 Ply.**

Width Inches	Length, Feet.				
	120	130	140	150	160
6	$30.00	$32.50	$35.00	$37.50	$40.00
7	34.80	37.70	40.60	43.50	46.40
8	40.80	44.20	47.60	51.00	54.40
9	51.60	55.90	60.30	64.70	69.00

Second Hand Leather Belting

We are in a position at all times to supply your wants in the very highest grade of SECOND HAND LEATHER BELTS on the market. We have but little trouble to convince people who have been in the habit of purchasing second hand leather belts, of the desirability of using them even in preference to buying new belts.

We rebuild second hand belts and ship practically a new belt, with the exception that the stock, of course, is second hand.

We have in our employ an expert belt man who has made a life-long study of furnishing large, second hand belts to people who know what belts mean. Many of our customers who have been here in the house will recognize the truth of this statement, and will know that the knowledge possessed by our belt man is second to none in the business.

We make these belts endless to order, and IN ORDERING THESE ENDLESS, BE SURE TO ALLOW 3 FT. FOR LAP. We will rivet these belts, making nominal charge for same.

Lot No. LB06.

Width, Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width, Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width, Inches.	Double Thick Per Foot.	Width, Inches	Double Thick, Per Foot
1	$0.05	.....	3½	$0.17	$0.34	8	$0.78	17	1.63
1¼	.06	.....	4	.19	.38	9	.87	18	1.72
1½	.07¼	.....	4½	.21	.42	10	.96	19	1.83
1¾	.09	.....	5	.24	.48	11	1.05	20	1.92
2	.10	$0.20	5½	.27	.54	12	1.15	21	2.00
2¼	.11	.22	6	.29	.58	13	1.25	22	2.10
2½	.12	.24	6½	.31	.62	14	1.34	23	2.20
2¾	.13	.26	7	.....	.68	15	1.45	24	2.30
3	.15	.30				16	1.54		

LACE LEATHER AND BELT HOOKS

Lace Leather

Cut Raw Hide Lace Leather cut from the best hides.

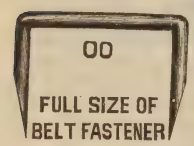
Lot No. LL 01. Cut Raw Hide Lace Leather, cut from the best hides, put in bundles containing 100 feet.

Width.	Price per 100 ft.
⅛ inch	$0.58
3/16 inch	.72
¼ inch	.87
⅜ inch	1.15
½ inch	1.50
⅝ inch	1.80

Lot No. LL 02. Raw Hide Lace Leather, from the best native hides. Sides containing from 5 to 15 square feet. We do not cut sides.

Price per square foot $0.23

Belt Hooks



Improved Steel Belt Hooks, chisel pointed with square shoulders, preventing spreading when driven through the belt. Made in five sizes and are put up 200 in a box.

No. 0. For single leather and light rubber belts.
Price, per box $0.15

No. 00. For double leather belts.
Price, per box ..... .16

No. 1. For all belts less than four ply.
Price, per box ..... .17

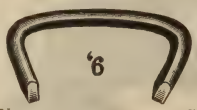
No. 2. For belts 4 to 6 ply.
Price, per box ..... .19

No. 3. For belts 6 to 10 ply.
Price, per box ..... .22

Adjustable Lace Leather Cutters

Lot No. LC 03. Made especially for cutting raw hide lace leather cutter is of finely tempered steel.
Price, each. $0.24

Oval Pointed Belt Hooks



Made of Norway Iron, with oval points, will not break in clinching. Are put up 250 in a box.

No.	Length.	Price per box.
12	25-32	$0.13
11	29-32	.15
10	1-1-32	.18
9	1⅛	.21
8	1¼	.26
7	1 18-32	.32
6	1¾	.46

Composition Wire Belt Lace

Put up in boxes of 50 feet. Lays flush with surface of belt and is better than hooks.

No. 1. For belts 6 inches wide and under.
Price per box $0.28

No. 2. For single belts wider than 6 inches and double belts under eight inches; also 4 ply rubber belts.
Price per box $0.28

No. 3. For all double belts wider than 8 inches, and all rubber belts 5 ply or heavier.
Price per box $0.28

SHEET PACKING

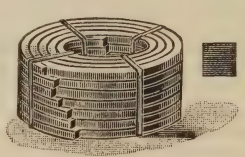
Lot No. 1. Cloth Insertion Packing, used by engineers and steam users in general. It combines smoothness of finish, strength of cloth insertion, pliability and durability. In rolls 30 inches wide. We do not cut the rolls lengthwise, but will furnish any quantity 1 yard wide. Thickness, 1-32, 1-16, 3-32, 1-8, 3-16, ¼-inch. Per pound $0.11½

Lot No. 3. Red Sheet Packing, equal to the highest grade on the market. It is intended for general use, and will not harden under the most extreme heat, and is very satisfactory for making gaskets, etc. Put up in rolls 36 inches wide. We do not cut rolls lengthwise, but will furnish any quantity 1 yard wide and any length desired. Sizes in stock, 1-32 to ¼-inch. Per pound $0.45

Lot No. 5. Wire Insertion Packing. This packing comes in thicknesses from 1-16-inch up. It is used in hot joints where a cloth insertion packing would be rotted or burnt out by the heat. It is very strong and durable. Per pound ... $0.32

Lot No. 6. Round Duck Packing. Made of heavy frictioned cotton duck wrapped around a rubber core center and vulcanized together. Made in 12 foot lengths. Sizes, ¼ to 2 inches diameter. Price, per pound $0.30

Lot No. 12. Asbestos Wick Packing. Is made of the purest asbestos fiber, is absolutely acid and fireproof and is used for packing small steam pumps, tubes, valve stems, and for similar purposes. It is put up in balls weighing ½ lb.
Price, per ball. $0.13



Lot No. 7. Square White Friction Packing For Hot water packing, made with an excellent friction. Under a high pressure it swells very little in service.
Price, per pound. $0.45

Lot No. 8. Square Black Friction Packing, for ordinary cold water use, sizes, ¼-inch and larger.
Price, per pound. $0.26

Lot No. 9. Square Hydraulic Piston Packing. Extra fine and will tsand hard service. Sises, ¼ to 2 inches. Price, per pouud $0.45

Lot No. 10. Square Flax Packing, highest grade, manufactured from long fibre flax on the most improved machine, and saturated with an excellent lubricant. It is used in the water end of pumps and hydraulic elevators. In stock sizes as follows: ¼, ⅜, ½, ¾, and 1 inch.
Price, per pound. $0.25

Lot No. 11. Spiral Graphite Packing, made of the very best quality of stock, guaranteed to give satisfaction. Put up in boxes containing 12 ft, and in sizes from ⅛ to 1 inch.
Price, per lb. (any size) $0.60

RUBBER BELT BARGAIN LIST

These remnants are all brand new and are partially made up of our Standard, Star and Premier brands. In addition to the regular brands of belting we are constantly buying special lots of high grade belts. These special lots you will understand we cannot put into our regular brands, and we are therefore obliged to make a special offering of them. Any of the belts contained in this list are without a question a bargain, and should you purchase one of these belts and it does not prove satisfactory you can return it to us.

Should you not find the exact length that you require we will willingly cut any longer belt where it does not leave us with too short a piece, and for this reason the price quoted on the remnants is per foot.

In offering these belts we make no distinction as to grade, but offer the various widths and plys at a low flat price. We would suggest that in ordering belts from this list that you state the purpose for which it is to be used. The belts contained in our remnant list sell very rapidly and in sending in orders for belts selected from this list we urge you to give a first, second and third choice. This will within all probability assure you of getting one of these choices without making it necessary for us to delay the order on account of writing you that we are out of the belt that you had selected.

Item No.	Width, Inches.	Ply.	Lgth. feet.	Our price per ft.
B. R. 1	1	2	50.	1½c
B. R. 2	1	2	60.	1½c
B. R. 3	1	2	70.	1½c
B. R. 4	1	2	80.	1½c
B. R. 5	1	2	90.	1½c
B. R. 6	1	2	100.	1½c
B. R. 7	1¼	2	18.	1¾c
B. R. 8	1¼	2	23.	1¾c
B. R. 9	1¼	2	25.	1¾c
B. R. 10	1¼	2	27.	1¾c
B. R. 11	1¼	2	34.	1¾c
B. R. 12	1¼	2	38.	1¾c
B. R. 13	1¼	2	43.	1¾c
B. R. 14	1¼	2	50.	1¾c
B. R. 15	1¼	2	65.	1¾c
B. R. 16	1¼	2	100.	1¾c
B. R. 17	1½	2	10.	2¼c
B. R. 18	1½	2	12.	2¼c
B. R. 19	1½	2	15.	2¼c
B. R. 20	1½	2	18.	2¼c
B. R. 21	1½	2	20.	2¼c
B. R. 22	1½	2	24.	2¼c
B. R. 23	1½	2	29.	2¼c
B. R. 24	1½	2	37.	2¼c
B. R. 25	1½	2	52.	2¼c
B. R. 26	1½	2	64.	2¼c
B. R. 27	2	2	11.	3 c
B. R. 28	2	2	13.	3 c
B. R. 29	2	2	15.	3 c
B. R. 30	2	2	17.	3 c
B. R. 31	2	2	21.	3 c
B. R. 32	2	2	24.	3 c
B. R. 33	2	2	28.	3 c
B. R. 34	2	2	35.	3 c
B. R. 35	2	2	49.	3 c
B. R. 36	2	2	57.	3 c
B. R. 37	2	2	75.	3 c
B. R. 38	2	2	125.	3 c
B. R. 39	2½	2	10.	3½c
B. R. 40	2½	2	14.	3½c
B. R. 41	2½	2	15.	3½c
B. R. 42	2½	2	19.	3½c
B. R. 43	2½	2	23.	3½c
B. R. 44	2½	2	27.	3½c
B. R. 45	2½	2	29.	3½c
B. R. 46	2½	2	34.	3½c
B. R. 47	2½	2	39.	3½c
B. R. 48	2½	2	41.	3½c
B. R. 49	2½	2	50.	3½c
B. R. 50	2½	2	62.	3½c
B. R. 51	2½	2	78.	3½c
B. R. 52	2½	2	150.	3½c
B. R. 53	3½	2	7.	5 c
B. R. 54	3½	2	9.	5 c
B. R. 55	3½	2	15.	5 c
B. R. 56	3½	2	21.	5 c
B. R. 57	3½	2	25.	5 c
B. R. 58	3½	2	29.	5 c
B. R. 59	3½	2	35.	5 c
B. R. 60	3½	2	40.	5 c
B. R. 61	3½	2	46.	5 c
B. R. 62	3½	2	52.	5 c
B. R. 63	3½	2	63.	5 c
B. R. 64	3½	2	75.	5 c
B. R. 65	3½	2	84.	5 c
B. R. 66	3½	2	97.	5 c
B. R. 67	3½	2	113.	5 c
B. R. 68	3½	2	137.	5 c
B. R. 69	4	2	11.	6 c
B. R. 70	4	2	16.	6 c

Item No.	Width, Inches.	Ply.	Lgth. feet.	Our price per ft.
B. R. 71	4	2	24.	6c
B. R. 72	4	2	26.	6c
B. R. 73	4	2	31.	6c
B. R. 74	4	2	33.	6c
B. R. 75	4	2	39.	6c
B. R. 76	4	2	42.	6c
B. R. 77	4	2	47.	6c
B. R. 78	4	2	51.	6c
B. R. 79	4	2	58.	6c
B. R. 80	4	2	65.	6c
B. R. 81	4	2	77.	6c
B. R. 82	4	2	93.	6c
B. R. 83	4	2	110.	6c
B. R. 84	4	2	127.	6c
B. R. 85	1	3	35.	1¾c
B. R. 86	1	3	43.	1¾c
B. R. 87	1	3	45.	1¾c
B. R. 88	1	3	47.	1¾c
B. R. 89	1	3	51.	1¾c
B. R. 90	1	3	55.	1¾c
B. R. 91	1	3	56.	1¾c
B. R. 92	1	3	58.	1¾c
B. R. 93	1½	3	12.	1¾c
B. R. 94	1½	3	15.	1¾c
B. R. 95	1½	3	18.	1¾c
B. R. 96	1½	3	21.	1¾c
B. R. 97	1½	3	24.	1¾c
B. R. 98	1½	3	27.	1¾c
B. R. 99	2	3	3.	3c
B. R. 100	2	3	4.	3c
B. R. 101	2	3	6.	3c
B. R. 102	2	3	7.	3c
B. R. 103	2	3	8.	3c
B. R. 104	2	3	9.	3c
B. R. 105	2	3	11.	3c
B. R. 106	2	3	12.	3c
B. R. 107	2	3	14.	3c
B. R. 108	2	3	15.	3c
B. R. 109	3½	3	4.	5½c
B. R. 110	3½	3	5.	5½c
B. R. 111	3½	3	6.	5½c
B. R. 112	3½	3	8.	5½c
B. R. 113	3½	3	9.	5½c
B. R. 114	3½	3	10.	5½c
B. R. 115	3½	3	11.	5½c
B. R. 116	3½	3	12.	5½c
B. R. 117	3½	3	14.	5½c
B. R. 118	3½	3	15.	5½c
B. R. 119	3½	3	16.	5½c
B. R. 120	4	3	3.	6c
B. R. 121	4	3	4.	6c
B. R. 122	4	3	6.	6c
B. R. 123	4	3	7.	6c
B. R. 124	4	3	9.	6c
B. R. 125	4	3	10.	6c
B. R. 126	4	3	12.	6c
B. R. 127	4	3	14.	6c
B. R. 128	4	3	15.	6c
B. R. 129	4	3	16.	6c
B. R. 130	4½	3	4.	6¾c
B. R. 131	4½	3	5.	6¾c
B. R. 132	4½	3	6.	6¾c
B. R. 133	4½	3	7.	6¾c
B. R. 134	4½	3	8.	6¾c
B. R. 135	4½	3	10.	6¾c
B. R. 136	4½	3	11.	6¾c
B. R. 137	4½	3	12.	6¾c
B. R. 138	4½	3	14.	6¾c
B. R. 139	5	3	3.	7½c
B. R. 140	5	3	4.	7½c

RUBBER BELT BARGAIN LIST—Continued

Item No.	Width Inches	Ply	Length Feet	Our price Per foot
B. R. 141	3	3	5.	7½c
B. R. 142	5	3	6.	7½c
B. R. 143	5	3	8.	7½c
B. R. 144	5	3	10.	7½c
B. R. 145	5	3	11.	7½c
B. R. 146	5	3	12.	7½c
B. R. 147	5	3	14.	7½c
B. R. 148	6	3	3.	9c
B. R. 149	6	3	4.	9c
B. R. 150	6	3	7.	9c
B. R. 151	6	3	8.	9c
B. R. 152	6	3	10.	9c
B. R. 153	6	3	11.	9c
B. R. 154	6	3	12.	9c
B. R. 155	6	3	14.	9c
B. R. 156	2	4	3.	4½c
B. R. 157	2	4	4.	4½c
B. R. 158	2	4	5.	4½c
B. R. 159	2	4	7.	4½c
B. R. 160	2	4	9.	4½c
B. R. 161	2	4	10.	4½c
B. R. 162	2	4	41.	4½c
B. R. 163	2	4	12.	4½c
B. R. 164	2	4	14.	4½c
B. R. 165	2½	4	44.	6c
B. R. 166	2½	4	6.	6c
B. R. 167	2½	4	7.	6c
B. R. 168	2½	4	9.	6c
B. R. 169	2½	4	10.	6c
B. R. 170	2½	4	11.	6c
B. R. 171	2½	4	12.	6c
B. R. 172	2½	4	14.	6c
B. R. 173	3	4	3.	7½c
B. R. 174	3	4	4.	7½c
B. R. 175	3	4	5.	7½c
B. R. 176	3	4	7.	7½c
B. R. 177	3	4	9.	7½c
B. R. 178	3	4	11.	7½c
B. R. 179	3	4	12.	7½c
B. R. 180	3½	4	4.	8½c
B. R. 181	3½	4	5.	8½c
B. R. 182	3½	4	7.	8½c
B. R. 183	3½	4	8.	8½c
B. R. 184	3½	4	9.	8½c
B. R. 185	3½	4	10.	8½c
B. R. 186	3½	4	11.	8½c
B. R. 187	3½	4	12.	8½c
B. R. 188	3½	4	14.	8½c
B. R. 189	3½	4	15.	8½c
B. R. 190	4½	4	3.	8½c
B. R. 191	4½	4	4.	8½c
B. R. 192	4½	4	6.	8½c
B. R. 193	4½	4	7.	8½c
B. R. 194	4½	4	8.	8½c
B. R. 195	4½	4	9.	8½c
B. R. 196	4½	4	10.	8½c
B. R. 197	4½	4	11.	8½c
B. R. 198	4½	4	12.	8½c
B. R. 199	4½	4	14.	8½c
B. R. 200	4½	4	15.	8½c
B. R. 201	5	4	5.	11¼c
B. R. 202	5	4	6.	11¼c
B. R. 203	5	4	8.	11¼c
B. R. 204	5	4	9.	11¼c
B. R. 205	5	4	10.	11¼c
B. R. 206	5	4	11.	11¼c
B. R. 207	5	4	12.	11¼c
B. R. 208	5	4	13.	11¼c
B. R. 209	5	4	14.	11¼c
B. R. 210	5	4	15.	11¼c
B. R. 211	6	4	4.	14c
B. R. 212	6	4	5.	14c
B. R. 213	6	4	6.	14c
B. R. 214	6	4	7.	14c
B. R. 215	6	4	8.	14c
B. R. 216	6	4	9.	14c
B. R. 217	6	4	11.	14c
B. R. 218	6	4	12.	14c
B. R. 219	6	4	14.	14c
B. R. 220	7	4	3.	16½c
B. R. 221	7	4	4.	16½c
B. R. 222	7	4	5.	16½c
B. R. 223	7	4	7.	16½c
B. R. 224	7	4	9.	16½c
B. R. 225	7	4	10.	16½c
B. R. 226	7	4	11.	16½c
B. R. 227	7	4	12.	16½c
B. R. 228	7	4	14.	16½c
B. R. 229	7	4	16.	16½c
B. R. 230	7	4	17.	16½c
B. R. 231	7	4	18.	16½c
B. R. 232	9	4	20.	22c
B. R. 233	9	4	24.	22c
B. R. 234	9	4	27.	22c
B. R. 235	9	4	30.	22c
B. R. 236	9	4	35.	22c
B. R. 237	9	4	40.	22c
B. R. 238	9	4	48.	22c
B. R. 239	9	4	51.	22c
B. R. 240	9	4	53.	22c
B. R. 241	9	4	55.	22c
B. R. 242	9	4	57.	22c
B. R. 243	9	4	59.	22c
B. R. 244	10	4	21.	24c
B. R. 245	10	4	26.	24c
B. R. 246	10	4	29.	24c
B. R. 247	10	4	33.	24c
B. R. 248	10	4	35.	24c
B. R. 249	10	4	37.	24c
B. R. 250	10	4	40.	24c
B. R. 251	10	4	45.	24c
B. R. 252	10	4	47.	24c
B. R. 253	10	4	50.	24c
B. R. 254	10	4	54.	24c
B. R. 255	10	4	60.	24c
B. R. 256	10	4	69.	24c
B. R. 257	10	4	74.	24c
B. R. 258	10	4	78.	24c
B. R. 259	11	4	25.	26c
B. R. 260	11	4	29.	26c
B. R. 261	11	4	30.	26c
B. R. 262	11	4	33.	26c
B. R. 263	11	4	39.	26c
B. R. 264	11	4	41.	26c
B. R. 265	11	4	45.	26c
B. R. 266	11	4	50.	26c
B. R. 267	11	4	55.	26c
B. R. 268	11	4	59.	26c
B. R. 269	11	4	65.	26c
B. R. 270	11	4	76.	26c
B. R. 271	11	4	90.	26c
B. R. 272	11	4	93.	26c
B. R. 273	11	4	100.	26c
B. R. 274	11	4	125.	26c
B. R. 275	11	4	115.	26c
B. R. 276	11	4	135.	26c
B. R. 277	11	4	140.	26c
B. R. 278	11	4	145.	26c
B. R. 279	11	4	150.	26c
B. R. 280	11	4	190.	26c
B. R. 281	12	4	20.	30c
B. R. 282	12	4	24.	30c
B. R. 283	12	4	29.	30c
B. R. 284	12	4	31.	30c
B. R. 285	12	4	36.	30c
B. R. 286	12	4	40.	30c
B. R. 287	12	4	50.	30c
B. R. 288	12	4	55.	30c
B. R. 289	12	4	60.	30c
B. R. 290	12	4	65.	30c
B. R. 291	12	4	76.	30c
B. R. 292	12	4	80.	30c
B. R. 293	12	4	83.	30c
B. R. 294	12	4	90.	30c
B. R. 295	12	4	94.	30c
B. R. 296	12	4	100.	30c
B. R. 297	12	4	112.	30c
B. R. 298	12	4	115.	30c
B. R. 299	12	4	120.	30c
B. R. 300	12	4	125.	30c
B. R. 301	12	4	132.	30c
B. R. 302	13	4	20.	32c
B. R. 303	13	4	24.	32c
B. R. 304	13	4	29.	32c
B. R. 305	13	4	35.	32c
B. R. 306	13	4	39.	32c
B. R. 307	13	4	32.	32c
B. R. 308	13	4	35.	32c
B. R. 309	13	4	47.	32c
B. R. 310	13	4	57.	32c
B. R. 311	13	4	64.	32c
B. R. 312	13	4	70.	32c
B. R. 313	13	4	76.	32c
B. R. 314	13	4	89.	32c

RUBBER BELT BARGAIN LIST—Continued

Item No.	Width Inches	Ply	Length Feet	Our Price Per Foot
B. R. 315	13	4	94	32c
B. R. 316	13	4	102	32c
B. R. 317	13	4	112	32c
B. R. 318	13	4	125	32c
B. R. 319	13	4	141	32c
B. R. 320	13	4	152	32c
B. R. 321	13	4	165	32c
B. R. 322	13	4	173	32c
B. R. 323	13	4	181	32c
B. R. 324	13	4	190	32c
B. R. 325	13	4	226	32c
B. R. 326	14	4	24	35c
B. R. 327	14	4	30	35c
B. R. 328	14	4	34	35c
B. R. 329	14	4	39	35c
B. R. 330	14	4	42	35c
B. R. 331	14	4	47	35c
B. R. 332	14	4	50	32c
B. R. 333	14	4	55	35c
B. R 334	14	4	61	35c
B. R 335	14	4	70	35c
B. R. 336	14	4	74	35c
B. R. 337	14	4	77	35c
B. R. 338	14	4	82	35c
B. R. 339	14	4	86	35c
B. R. 340	14	4	90	35c
B. R. 341	14	4	94	35c
B. R. 342	16	4	24	40c
B. R. 343	16	4	27	40c
B. R. 344	16	4	29	40c
B. R. 345	16	4	31	40c
B. R. 346	16	4	36	40c
B. R. 347	16	4	39	40c
B. R. 348	16	4	45	40c
B. R. 349	16	4	48	40c
B. R. 350	16	4	51	40c
B. R. 351	16	4	55	40c
B. R. 352	16	4	65	40c
B. R. 353	16	4	69	40c
B. R. 354	16	4	71	40c
B. R. 355	16	4	85	40c
B. R. 356	16	4	94	40c
B. R. 357	16	4	98	40c
B. R. 358	16	4	100	40c
B. R. 359	24	4	150	63c
B. R. 360	5	5	24	11¼c
B. R. 361	5	5	26	11¼c
B. R. 362	5	5	29	11¼c
B. R. 363	5	5	31	11¼c
B. R. 364	5	5	37	11¼c
B. R. 365	5	5	42	11¼c
B. R. 366	5	5	48	11¼c
B. R. 367	5	5	50	11¼c
B. R. 368	5	5	54	11¼c
B. R. 369	5	5	57	11¼c
B. R. 370	5	5	61	11¼c
B. R. 371	5	5	68	11¼c
B. R. 372	5	5	71	11¼c
B. R. 373	5	5	80	11¼c
B. R. 374	5	5	90	11¼c
B. R. 375	5	5	97	11¼c
B. R. 376	5	5	102	11¼c
B. R. 377	5	5	120	11¼c
B. R. 378	5	5	125	11¼c
B. R. 379	5	5	130	11¼c
B. R. 380	5	5	140	11¼c
B. R. 381	5	5	150	11¼c
B. R. 382	5	5	160	11¼c
B. R. 383	6	5	20	14c
B. R. 384	6	5	24	14c
B. R. 385	6	5	28	14c
B. R. 386	6	5	31	14c
B. R. 387	6	5	39	14c
B. R. 388	6	5	45	14c
B. R. 389	6	5	59	14c
B. R. 390	6	5	65	14c
B. R. 391	6	5	71	14c
B. R. 392	6	5	75	14c
B. R. 393	6	5	80	14c
B. R. 394	6	5	85	14c
B. R. 395	6	5	88	14c
B. R. 396	6	5	90	14c
B. R. 397	6	5	98	14c
B. R. 398	6	5	100	14c
B. R. 399	6	5	110	14c
B. R. 400	6	5	115	14c
B. R. 401	8	5	25	24c

Item No.	Width Inches	Ply	Length Feet	Our Price Per Foot
B. R. 402	8	5	29	24c
B. R. 403	8	5	33	24c
B. R. 404	8	5	37	24c
B. R. 405	8	5	41	24c
B. R. 406	8	5	48	24c
B. R. 407	8	5	50	24c
B. R. 408	8	5	53	24c
B. R. 409	8	5	57	24c
B. R. 410	8	5	61	24c
B. R. 411	8	5	68	24c
B. R. 412	8	5	73	24c
B. R. 413	8	5	75	24c
B. R. 414	8	5	83	24c
B. R. 415	8	5	90	24c
B. R. 416	8	5	98	24c
B. R. 417	8	5	110	24c
B. R. 418	8	5	115	24c
B. R. 419	8	5	118	24c
B. R. 420	10	5	20	30c
B. R. 421	10	5	23	30c
B. R. 422	10	5	27	30c
B. R. 423	10	5	30	30c
B. R. 424	10	5	32	30c
B. R. 425	10	5	36	30c
B. R. 426	10	5	39	30c
B. R. 427	10	5	43	30c
B. R. 428	10	5	47	30c
B. R. 429	10	5	49	30c
B. R. 430	10	5	51	30c
B. R. 431	10	5	55	30c
B. R. 432	10	5	61	30c
B. R. 433	10	5	68	30c
B. R. 434	10	5	71	30c
B. R. 435	10	5	75	30c
B. R. 436	10	5	81	30c
B. R. 437	10	5	85	30c
B. R. 438	10	5	90	30c
B. R. 439	10	5	97	30c
B. R. 440	10	5	100	30c
B. R. 441	10	5	130	30c
B. R. 442	10	5	150	30c
B. R. 443	12	5	21	36c
B. R. 444	12	5	24	36c
B. R. 445	12	5	27	36c
B. R. 446	12	5	30	36c
B. R. 447	12	5	33	36c
B. R. 448	12	5	35	36c
B. R. 449	12	5	37	36c
B. R. 450	12	5	40	36c
B. R. 451	12	5	44	36c
B. R. 452	12	5	46	36c
B. R. 453	12	5	50	36c
B. R. 454	12	5	53	36c
B. R. 455	12	5	59	36c
B. R. 456	12	5	63	36c
B. R. 457	12	5	70	36c
B. R. 458	12	5	75	36c
B. R. 459	12	5	81	36c
B. R. 460	12	5	87	36c
B. R. 461	12	5	90	36c
B. R. 462	12	5	99	36c
B. R. 463	12	5	125	36c
B. R. 464	12	5	140	36c
B. R. 465	12	5	160	36c
B. R. 466	12	5	175	36c
B. R. 467	14	5	20	44c
B. R. 468	14	5	24	44c
B. R. 469	14	5	28	44c
B. R. 470	14	5	30	44c
B. R. 471	14	5	34	44c
B. R. 472	14	5	36	44c
B. R. 473	14	5	40	44c
B. R. 474	14	5	42	44c
B. R. 475	14	5	44	44c
B. R. 476	14	5	47	44c
B. R. 477	14	5	50	44c
B. R. 478	14	5	54	44c
B. R. 479	14	5	61	44c
B. R. 480	14	5	65	44c
B. R. 481	14	5	71	44c
B. R. 482	14	5	76	44c
B. R. 483	14	5	83	44c
B. R. 484	14	5	89	44c
B. R. 485	14	5	92	44c
B. R. 486	14	5	100	44c
B. R. 487	16	5	23	50c
B. R. 488	16	5	25	50c

RUBBER BELT BARGAIN LIST—Continued

Item No.	Width Inches	Ply	Length Feet	Our Price Per Foot
B. R. 489	16	5	27.	50c
B. R. 490	16	5	30.	50c
B. R. 491	16	5	35.	50c
B. R. 492	16	5	38.	50c
B. R. 493	16	5	46.	50c
B. R. 494	16	5	48.	50c
B. R. 495	16	5	50.	50c
B. R. 496	16	5	55.	50c
B. R. 497	16	5	58.	50c
B. R. 498	16	5	60.	50c
B. R. 499	16	5	63.	50c
B. R. 500	16	5	65.	50c
B. R. 501	16	5	75.	50c
B. R. 502	16	5	86.	50c
B. R. 503	16	5	90.	50c
B. R. 504	16	5	115.	50c
B. R. 505	16	5	120.	50c
B. R. 506	6	6	5.	21c
B. R. 507	6	6	10.	21c
B. R. 508	6	6	12.	21c
B. R. 509	6	6	14.	21c
B. R. 510	6	6	15.	21c
B. R. 511	6	6	16.	21c
B. R. 512	6	6	17.	21c
B. R. 513	6	6	19.	21c
B. R. 514	6	6	20.	21c
B. R. 515	7	6	55.	25c
B. R. 516	7	6	6.	25c
B. R. 517	7	6	8.	25c
B. R. 518	7	6	10.	25c
B. R. 519	7	6	11.	25c
B. R. 520	7	6	12.	25c
B. R. 521	7	6	15.	25c
B. R. 522	7	6	118.	25c
B. R. 523	7	6	19.	25c
B. R. 524	7	6	21.	25c
B. R. 525	7	6	24.	25c
B. R. 526	8	6	25.	28c
B. R. 527	8	6	31.	28c
B. R. 528	8	6	36.	28c
B. R. 529	8	6	39.	28c
B. R. 530	8	6	40.	28c
B. R. 531	8	6	43.	28c
B. R. 532	8	6	47.	28c
B. R. 533	8	6	51.	28c
B. R. 534	8	6	60.	28c
B. R. 535	8	6	64.	28c
B. R. 536	8	6	70.	28c
B. R. 537	10	6	20.	36c
B. R. 538	10	6	25.	36c
B. R. 539	10	6	30.	36c
B. R. 540	10	6	35.	36c
B. R. 541	10	6	38.	36c
B. R. 542	10	6	41.	36c
B. R. 543	10	6	49.	36c
B. R. 544	10	6	52.	36c
B. R. 545	10	6	60.	36c
B. R. 546	10	6	64.	36c
B. R. 547	10	6	70.	36c
B. R. 548	10	6	75.	36c
B. R. 549	10	6	80.	36c
B. R. 550	10	6	85.	36c
B. R. 551	12	6	20.	44c
B. R. 552	12	6	24.	44c
B. R. 553	12	6	27.	44c
B. R. 554	12	6	30.	44c
B. R. 555	12	6	32.	44c
B. R. 556	12	6	37.	44c
B. R. 557	12	6	42.	44c
B. R. 558	12	6	49.	44c
B. R. 559	12	6	55.	44c
B. R. 560	12	6	61.	44c
B. R. 561	12	6	67.	44c
B. R. 562	12	6	74.	44c
B. R. 563	12	6	80.	44c
B. R. 564	12	6	87.	44c
B. R. 565	12	6	95.	44c
B. R. 566	12	6	102.	44c
B. R. 567	12	6	115.	44c
B. R. 568	12	6	120.	44c
B. R. 569	12	6	140.	44c
B. R. 570	12	6	150.	44c
B. R. 571	12	6	164.	44c
B. R. 572	12	6	178.	44c
B. R. 573	12	6	185.	44c
B. R. 574	12	6	200.	44c
B. R. 575	12	6	220.	44c
B. R. 576	12	6	250.	44c
B. R. 577	14	6	25.	52c
B. R. 578	14	6	31.	52c
B. R. 579	14	6	37.	52c
B. R. 580	14	6	40.	52c
B. R. 581	14	6	50.	52c
B. R. 582	14	6	59.	52c
B. R. 583	14	6	64.	52c
B. R. 584	14	6	75.	52c
B. R. 585	14	6	77.	52c
B. R. 586	14	6	79.	52c
B. R. 587	14	6	81.	52c
B. R. 588	14	6	85.	52c
B. R. 589	14	6	88.	52c
B. R. 590	14	6	90.	52c

We purchased the complete electric power plants of the Chicago City Railway Co. and have for sale large Corliss engines, 500 volt railroad motors, besides copper wire, switch board apparatus, instruments and material of all kinds. All of this is incorporated in a special booklet we are now mailing to those interested.

Red Stitched Canvas Belt Remnant List.

These remnants we accumulate from our regular stock of stitched canvas belting and it is all brand new and perfect. We offer these as follows:

Item No.	No. of Pieces	Width Inches	Ply	Length of each in feet	Price per foot
535	3	1½	4	24	3¾c
536	5	1½	4	25	3¾c
537	7	1½	4	26	3¾c
538	1½	1½	4	27	3¾c
539	1	1½	4	29	3¾c
540	1	1½	4	60	3¾c
541	1	1½	4	120	3¾c
542	1	1½	4	210	3¾c
543	1	1½	4	302	3¾c
544	1	1½	4	4	3¾c
545	1	1½	4	10	3¾c
546	4	1½	4	24	3¾c
547	2	1½	4	24	3¾c
548	4	1½	4	26	3¾c
549	3	2	4	3	5c
550	3	2	4	4	5c
551	1	2	4	7	5c
552	1	2	4	8	5c
553	2	2	4	9	5c
554	2	2	4	10	5c
555	2	2	4	12	5c
556	1	2	4	17	5c
557	2	2	4	22	5c
558	1	2	4	24	5c
559	2	2	4	25	5c
560	2	2	4	26	5c
561	3	2	4	27	5c
562	3	2	4	28	5c
563	4	2	4	29	5c
564	1	2	4	80	5c
565	1	2	4	31	5c
566	1	2	4	32	5c
567	1	2	4	34	5c
568	1	2	4	37	5c
569	1	2	4	45	5c
570	1	2	4	50	5c
571	1	2	4	65	5c
572	1	2	4	110	5c
573	1	2	4	115	5c
574	1	2	4	320	5c
575	1	2½	4	22½	6½c
576	1	2½	4	26	6½c
577	1	2½	4	30	6½c
578	1	2½	4	33	6½c
579	1	2½	4	54	6½c
580	1	2½	4	55	6½c
581	1	2½	4	78	6½c
582	1	2½	4	92	6½c
583	1	2½	4	100	6½c
584	1	2½	4	166	6½c
585	1	2½	4	216½	6½c
586	1	2½	4	242	6½c
587	1	2½	4	276	6½c
588	1	2½	4	286	6½c
589	1	2½	4	308	6½c
590	1	2½	4	312	6½c
591	1	2½	4	336	6½c
592	2	3	4	55	7½c
593	1	3	4	6	7½c
594	1	3	4	7	7½c
595	2	3	4	11	7½c
596	2	3	4	12	7½c
597	1	3	4	14	7½c
598	1	3	4	16	7½c
599	1	3	4	16½	7½c
600	1	3	4	17½	7½c
601	1	3	4	18	7½c
602	2	3	4	25	7½c
603	1	3	4	27	7½c
604	1	3	4	29½	7½c
605	1	3	4	30	7½c
606	1	3	4	31	7½c
607	1	3	4	36	7½c
608	1	3	4	46	7½c
609	1	3	4	48½	7½c
610	1	3	4	56	7½c
611	1	3	4	58	7½c
612	1	3	4	85	7½c
613	2	3	4	115	7½c
614	1	3	4	308	7½c
615	1	3	4	345	7½c
616	1	3½	4	9	9c
617	1	3½	4	13	9c
618	1	3½	4	19	9c
619	1	3½	4	20	9c
620	1	3½	4	23	9c
621	1	3½	4	25	9c
622	2	3½	4	35	9c
623	2	3½	4	37	9c
624	1	3½	4	45½	9c
625	1	3½	4	50	9c
626	2	3½	4	60	9c
627	1	3½	4	70	9c
628	1	3½	4	77	9c
629	1	3½	4	78	9c
630	1	3½	4	100	9c
631	1	3½	4	216	9c
632	1	3½	4	270	9c
633	1	3½	4	307	9c
634	1	3½	4	325	9c
635	1	4	4	4	10c
636	2	4	4	6	10c
637	2	4	4	7	10c
638	3	4	4	8	10c
639	2	4	4	10	10c
640	2	4	4	12	10c
641	2	4	4	13	10c
642	1	4	4	13½	10c
643	2	4	4	14	10c
644	1	4	4	14½	10c
645	1	4	4	16	10c
646	2	4	4	17	10c
647	3	4	4	18	10c
648	1	4	4	20	10c
649	1	4	4	21½	10c
650	1	4	4	27	10c
651	1	4	4	30	10c
652	1	4	4	38½	10c
653	1	4	4	43	10c
654	1	4	4	52	10c
655	1	4	4	101	10c
656	1	4	4	120	10c
657	1	4	4	145	10c
658	1	4	4	253	10c
659	1	4	4	263	10c
660	1	4	4	269½	10c
661	1	4	4	302	10c
662	1	4	4	332	10c
663	1	4	4	354	10c
664	1	5	4	44	12½c
665	2	5	4	5	12½c
666	1	5	4	6	12½c
667	2	5	4	8	12½c
668	1	5	4	9	12½c
669	1	5	4	10	12½c
670	3	5	4	11	12½c
671	1	5	4	12	12½c
672	1	5	4	13	12½c
673	2	5	4	14	12½c
674	1	5	4	18	12½c
675	1	5	4	19½	12½c
676	1	5	4	21	12½c
677	1	5	4	23	12½c
678	1	5	4	24	12½c
679	1	5	4	25	12½c
680	1	5	4	26	12½c
681	1	5	4	37	12½c
682	1	5	4	40	12½c
683	1	5	4	42	12½c
684	1	5	4	47	12½c
685	2	5	4	58	12½c
686	3	5	4	65	12½c
687	1	5	4	110	12½c
688	1	5	4	111	12½c
689	1	5	4	112	12½c
690	1	5	4	110	12½c
691	1	5	4	112	12½c
692	1	6	4	4½	15c
693	3	6	4	6	15c
694	1	6	4	7	15c
695	1	5	4	8	15c
696	1	6	4	8½	15c
697	3	6	4	9	15c
698	2	6	4	10	15c
699	2	6	4	11	15c

Red Stitched Canvas Belt Remnant List—Continued.

Item No.	No. of Pieces	Width Inches	Ply	Length of each in feet	Price per foot
700	2	6	4	13.	15c
701	1	6	4	14.	15c
702	3	6	4	15.	15c
703	2	6	4	16.	15c
704	2	6	4	17.	15c
705	1	6	4	18.	15c
706	1	6	4	19.	15c
707	1	6	4	20.	15c
708	2	6	4	21.	15c
709	2	6	4	24.	15c
710	1	6	4	29.	15c
711	1	6	4	35.	15c
712	2	6	4	38.	15c
713	1	6	4	39.	15c
714	1	6	4	39½	15c
715	1	6	4	40.	15c
716	1	6	4	53½	15c
717	1	6	4	88.	15c
718	1	6	4	91.	15c
719	6	6	4	105.	15c
720	1	6	4	107.	15c
721	1	6	4	110.	15c
722	1	7	4	7.	17½c
723	2	7	4	12.	17½c
724	1	7	4	16.	17½c
725	3	7	4	18.	17½c
726	3	7	4	19.	17½c
727	2	7	4	24.	17½c
728	2	7	4	27.	17½c
729	1	7	4	33.	17½c
730	1	7	4	36.	17½c
731	2	7	4	53.	17½c
732	1	7	4	59.	17½c
733	2	7	4	75.	17½c
734	1	7	4	98.	17½c
735	2	7	4	100.	17½c
736	1	7	4	105.	17½c
737	1	7	4	149.	17½c
738	1	7	4	220.	17½c
739	1	7	3	355.	17½c
740	1	7	4	372.	17½c
741	2	8	4	5.	20c
742	1	8	4	12.	20c
743	2	8	4	19.	20c
744	1	8	4	26.	20c
745	1	8	4	36.	20c
746	1	8	4	97.	20c
747	1	8	4	3.	20c
748	1	8	4	6.	20c
749	2	8	4	9.	20c
750	1	8	4	14.	20c
751	1	8	4	15.	20c
752	1	8	4	16.	20c
753	1	8	4	18.	20c
754	2	9	4	14.	22½c
755	3	9	4	16.	22½c
756	1	9	4	24.	22½c
757	1	10	4	5.	25c
758	1	10	4	5½	25c
759	3	10	4	11.	25c
760	1	10	4	13.	25c
761	1	10	4	22.	25c
762	1	10	4	25.	25c
763	1	10	4	26.	25c
764	1	10	4	27½	25c
765	1	10	4	29.	25c
766	1	10	4	30.	25c
767	1	12	4	7.	25c
768	1	12	4	17.	25c
769	1	12	4	34.	25c
770	1	12	4	35.	25c
771	1	12	4	48.	25c
772	1	4	6	4.	14½c
773	8	4	6	8.	14½c
774	1	4	6	18.	14½c
775	1	4	6	22½	14½c
776	1	4	6	27.	14½c
777	1	4	6	28.	14½c
778	1	4	6	42.	14½c
779	1	4	6	90.	14½c
780	1	4	6	130.	14½c
781	1	4	6	226.	14½c
782	1	4	6	251.	14½c
783	1	5	6	4½	18c
784	1	5	6	8½	18c
785	2	5	6	17.	18c
786	2	5	6	24.	18c
787	3	5	6	25.	18c
788	1	5	6	27.	18c
789	2	5	6	28.	18c
790	1	5	6	42.	18c
791	2	5	6	46.	18c
792	1	5	6	47.	18c
793	2	5	6	94.	18c
794	2	5	6	126.	18c
795	1	5	6	211.	18c
796	1	5	6	213.	18c
797	1	5	6	246.	18c
798	1	6	6	5.	22c
799	1	6	6	18.	22c
800	1	6	6	19½	22c
801	2	6	6	31.	22c
802	1	6	6	32½	22c
803	1	6	6	46½	22c
804	3	6	6	90.	22c
805	1	6	6	113.	22c
806	1	6	6	172.	22c
807	1	7	6	11.	26c
808	1	7	6	27.	26c
809	1	7	6	77.	26c
810	1	7	6	100.	26c
811	1	7	6	351.	26c
812	1	8	6	7.	29c
813	1	8	6	8.	29c
814	1	8	6	10½	29c
815	2	8	6	11.	29c
816	2	8	6	12.	29c
817	1	8	6	13.	29c
818	2	8	6	14.	29c
819	4	8	6	15.	29c
820	1	8	6	23.	29c
821	1	8	6	30.	29c
822	1	8	6	31½	29c
823	1	8	6	32.	29c
824	2	8	6	80.	29c
825	1	8	6	110.	29c
826	1	8	6	130.	29c
827	1	9	6	45.	33c
828	1	9	6	90.	33c
829	1	9	6	104.	33c
830	1	9	6	187.	33c
831	1	9	6	325.	33c
832	1	9	6	41.	33c
833	2	9	6	35.	33c
834	2	9	6	34.	33c
835	2	9	6	30.	33c
836	1	9	6	29.	33c
837	1	9	6	27½	33c
838	1	9	6	25.	33c
839	1	9	6	16.	33c
840	1	9	6	15.	33c
841	2	10	6	5.	36c
842	1	10	6	6.	36c
843	1	10	6	7½	36c
844	1	10	6	12.	36c
845	2	10	6	14.	36c
846	1	10	6	15.	36c
847	1	10	6	23½	36c
848	1	10	6	27.	36c
849	1	10	6	28½	36c
850	1	10	6	30½	36c
851	1	10	6	43.	36c
852	2	10	6	65½	36c
853	1	10	6	93.	36c
854	1	10	6	178½	36c
855	1	10	6	201.	36c
856	1	10	6	320.	36c
857	1	12	6	4½	44c
858	1	12	6	7.	44c
859	1	12	6	8.	44c
860	1	12	6	9.	44c
861	1	12	6	12.	44c
862	1	12	6	13.	44c
863	1	12	6	15½	44c
864	2	12	6	18.	44c
865	1	12	6	20.	44c
866	3	12	6	23.	44c
867	4	12	6	27.	44c
868	2	12	6	28.	44c
869	1	12	6	31.	44c
870	2	12	6	33.	44c
871	1	12	6	41½	44c

Red Stitched Canvas Belt Remnant List—Continued.

Item No.	No. of Pieces	Width Inches	Ply	Length of each in feet	Price per foot
872	2	12	6	44	44c
873	2	12	6	53	44c
874	1	12	6	55	44c
875	1	12	6	660½	44c
876	3	12	6	100	44c
877	2	12	6	140	44c
878	2	12	6	140	44c
879	1	12	6	199	44c
880	1	12	6	314	44c
881	1	12	6	340	44c
882	1	14	6	12	53c
883	1	14	6	22	53c
884	2	14	6	25	53c
885	3	14	6	27	53c
886	2	14	6	30½	53c
887	2	14	6	35	53c
888	1	14	6	38	53c
889	2	14	6	40	53c
890	2	14	6	63	53c
891	1	14	6	69	53c
892	1	14	6	64	53c
893	2	14	6	150	53c
894	1	14	6	314	53c
895	1	14	6	325	53c
896	1	14	6	337	53c
897	1	14	6	349	53c
898	1	16	6	6	61c
899	1	16	6	8	61c
900	1	16	6	11	61c
901	1	16	6	13	61c

WHITE WOVEN COTTON BELTING

For Elevator Purposes

Always in stock. It is new and first class quality.—LOT No. WC10.

TWO PLY

Width Inches	Price Per ft.	Width Inches	Price Per ft.	Width Inches	Price Per ft.	Width Inches	Price Per ft.
1	$0.01½	2½	$0.02¾	3½	$0.03¼	5	$0.05¼
1½	.02	3	.03	4	.03½	6	.06¾
2	.02½						

THREE PLY

1½	$0.02½	4	$0.06	6½	$0.10½	12	$0.19
2	.03½	4½	.06¾	7	.10¾	14	.24
2½	.04	5	.07½	8	.12½	16	.29
3	.04¾	5½	.08¾	9	.14	18	.33
3½	.05½	6	.09¼	10	.15½	20	.36

FOUR PLY

4	$0.08½	7	$0.13½	12	$0.24	18	$0.40
4½	.09½	8	.15	14	.30	20	.46
5	.10½	9	.17½	16	.36	22	.54
6	.12	10	.20				

FIVE PLY

4	$0.13½	6	$0.16½	10	$0.25	18	$0.51
4½	.14½	7	.18	12	.30	20	.57
5	.15	8	.20	14	.37	22	.65
5½	.16	9	.22	16	.45	24	.72

SIX PLY

6	$0.18½	9	$0.26	14	$0.45	20	$0.69
7	.20	10	.30	16	.54	22	.78
8	.23	12	.36	18	.60	24	.86

SECOND-HAND LEATHER BELT BARGAIN REMNANT LIST

These belts we secure from the manufacturing plants which we are constantly dismantling. They are in good second-hand condition, thoroughly practical for further use.

SINGLE LEATHER BELTS

Item No.	Length feet.	Price of Belt.
	1¼-inch.	
1	6	$0.33
2	35	1.92
	1½-inch.	
3	20	1.35
4	23	1.55
5	25	1.68
6	34	2.30
7	39	
8	40	2.70
9	50	3.38
10	53	3.57
11	55	3.71
12	60	4.05
13	100	6.75
14	125	8.45
	2-inch.	
15	25	2.35
16	30	2.70
17	35	3.15
18	36	3.42
19	40	3.60
20	45	4.05
21	47	4.23
22	48	3.24
23	49	4.41
24	50	4.50
25	54	4.86
26	60	5.40
27	64	5.76
28	65	5.85
29	70	6.30
30	96	8.64
31	110	9.90
32	130	11.70
33	136	12.54
	2¼-inch	
34	39	3.90
35	54	5.40
36	55	5.50
37	80	8.00
	2½-inch	
38	4	.44
39	10	1.10
40	11	1.31
41	14	1.54
42	18	1.98
43	22	2.42
44	35	3.85
45	40	4.40
46	40	4.40
47	47	5.17
48	48	5.28
49	50	5.50
50	52	5.72
51	53	5.83
52	55	6.05
53	56	6.16
54	58	6.38
55	59	6.49
56	60	6.60
57	61	6.71
58	62	6.82
59	66	7.26
60	70	7.70
61	85	9.35
62	100	11.00
63	105	11.55
	3-inch.	
64	7	.93
65	8	1.08
66	12	1.62
67	15	1.35
68	20	2.70
69	22	2.97
70	25	3.38
71	35	4.73
	3-inch.	
72	36	$4.86
73	40	5.40
74	42	5.67
75	44	5.94
76	50	6.75
77	54	7.29
78	55	7.43
79	56	7.56
80	58	7.83
81	60	8.10
82	61	8.25
83	63	8.50
84	65	8.78
85	70	9.45
86	85	11.48
87	92	12.37
	3½-inch.	
88	5	.78
89	9	1.39
90	10	1.55
91	11	1.70
92	15	2.32
93	19	3.95
94	22	3.08
95	30	4.65
96	35	5.43
97	36	6.58
98	70	11.20
	4-inch.	
99	4	0.70
100	6	1.05
101	7	1.23
102	8	1.40
103	9	1.58
104	12	2.10
105	14	2.45
106	15	2.63
107	16	2.80
108	17	2.98
109	18	3.15
110	24	4.20
111	27	4.73
112	30	5.25
113	38	6.60
	4½-inch.	
114	8	1.52
115	99	1.71
116	14	2.66
117	18	3.42
118	19	3.61
119	35	6.65
	5-inch.	
120	3	.66
121	5	1.10
122	6	1.32
123	7	1.52
124	8	1.76
125	11	2.42
126	12	2.64
127	18	3.60
128	20	2.40
129	30	6.60
	6-inch.	
130	9	2.25
131	12	3.00
132	16	4.80
133	18	4.50

DOUBLE LEATHER BELTS

Item No.	Length feet.	Price of Belt.
	1½-inch.	
134	4	.50
135	5	.60
136	6	.81
137	10	1.35
138	12	1.62
139	13	1.75
140	27	3.65

Second-Hand Leather Belts—Continued

Item No.	Length, feet.	Price of Belt.
	1¾-inch.	
141	8.	$
142	10.	
143	12.	
144	15.	
145	18.	
146	20.	
147	23.	
148	24.	
149	42.	
	2-inch.	
150	5.	.75
151	10.	1.80
152	14.	3.52
153	15.	2.70
154	18.	3.20
155	28.	5.04
156	96.	17.28
	2½-inch.	
157	7.	1.50
158	8.	1.65
159	9.	1.80
160	10.	2.00
161	11.	2.20
162	12.	2.35
163	14.	2.85
164	18.	3.96
165	20.	4.40
166	21.	4.62
167	42.	9.24
168	55.	12.10
169	65.	14.00
	3-inch.	
170	4.	1.00
171	5.	1.25
172	8.	2.16
173	11.	2.75
174	13.	3.25
175	14.	3.50
176	15.	3.75
177	18.	4.50
178	20.	5.40
179	21.	5.67
180	22.	5.94
181	24.	6.48
182	25.	6.75
183	27.	7.29
184	30.	8.00
185	32.	8.50
186	34.	9.18
187	35.	9.45
188	38.	10.26
189	40.	10.80
190	45.	10.80
191	60.	16.20
192	75.	20.25
193	87.	23.49
194	99.	26.73
195	105.	28.35
196	110.	29.70
197	112.	30.24
198	120.	32.40
199	125.	35.75
200	140.	37.80
	3½-inch.	
201	3.	.80
202	4.	1.00
203	5.	1.20
204	6.	1.45
205	7.	1.75
206	8.	2.00
207	9.	2.30
208	10.	2.55
209	11.	2.90
210	12.	3.35
211	14.	4.00
212	15.	4.40
213	16.	4.70
214	17.	5.00
215	18.	5.50
216	19.	5.89
217	20.	6.20
218	21.	6.51
219	23.	7.13
220	24.	7.44
221	25.	7.75
222	26.	8.06

Item No.	Length, feet.	Price of Belt.
	3½-inch.	
223	30.	$9.30
224	35.	10.85
225	42.	13.02
226	54.	16.74
227	65.	20.15
228	76.	23.56
229	88.	27.28
230	95.	29.45
231	105.	32.55
	4-inch.	
232	3.	1.00
233	4.	1.40
234	5.	1.65
235	6.	1.85
236	7.	1.90
237	9.	2.25
238	10.	3.50
239	11.	3.80
240	12.	4.10
241	14.	4.90
242	15.	5.25
243	16.	5.60
244	17.	5.95
245	18.	6.30
246	20.	7.00
247	21.	7.35
248	23.	8.05
249	25.	8.75
250	28.	9.80
251	35.	12.25
252	46.	16.10
253	72.	25.20
	4½-inch.	
254	5.	1.90
255	7.	2.66
256	8.	3.04
257	9.	3.42
258	10.	3.80
259	14.	5.32
260	18.	6.84
261	20.	7.60
262	26.	9.88
	5-inch.	
263	4.	1.75
264	5.	1.95
265	6.	2.35
266	7.	2.75
267	8.	3.15
268	10.	4.40
269	11.	4.84
270	12.	5.28
271	13.	5.72
272	14.	6.16
273	15.	6.50
274	16.	7.04
275	18.	7.92
276	20.	8.80
277	21.	9.24
278	22.	9.68
279	25.	11.00
280	26.	11.44
281	27.	11.88
282	30.	14.20
283	42.	18.48
	6-inch.	
284	3.	1.50
285	5.	2.50
286	6.	3.00
287	8.	4.00
288	10.	5.00
289	14.	7.00
290	18.	9.00
291	20.	10.00
292	22.	11.00
293	23.	11.50
294	25.	12.50
295	26.	15.00
296	42.	21.00
	7-inch.	
297	3.	1.89
298	4.	2.52
299	7.	4.25
300	10.	6.30
301	20.	12.60
302	24.	15.12

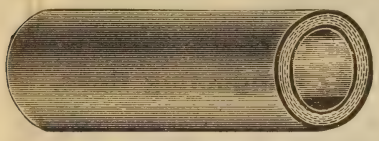
Second-Hand Leather Belts—Continued

Item No.	Length, feet.	Price of Belt.
	8-inch.	
303	3.	$2.16
304	4.	2.88
305	5.	3.60
306	7.	5.04
307	9.	6.48
308	10.	7.20
309	11.	7.92
310	12.	8.64
311	14.	10.08
312	15.	10.80
313	16.	11.52
314	17.	12.24
315	18.	12.96
316	20.	14.40
317	22.	15.84
318	24.	17.28
319	25.	18.00
320	26.	18.72
321	29.	20.88
322	30.	21.60
323	38.	27.36
324	40.	28.80
	9-inch.	
325	9.	7.20
326	10.	8.00
327	11.	8.80
328	14.	11.20
329	18.	14.40
330	22.	17.60
331	24.	19.20
332	27.	21.60
333	28.	22.40
334	36.	28.80
335	58.	46.40
	10-inch.	
336	3.	2.61
337	5.	4.35
338	6.	5.22
339	7.	6.09
340	8.	6.96
341	9.	7.83
342	10.	8.70
343	11.	9.57
344	12.	10.44
345	14.	12.18
346	15.	13.05
347	16.	13.92
348	17.	14.79
349	18.	15.66
350	19.	16.53
351	20.	17.40
352	21.	18.27
353	22.	19.14
354	24.	20.88
355	27.	23.49
356	29.	25.32
357	30.	26.10
358	32.	27.84
359	33.	28.71
360	34.	29.58
361	36.	31.32
362	38.	33.06
363	40.	34.80
364	39.	33.93
365	50.	43.50
366	61.	53.07
367	71.	61.77
368	80.	69.60
369	103.	89.61
370	142.	123.54
	11-inch.	
371	9.	8.55
372	10.	9.50
373	11.	10.45
374	12.	11.40
375	14.	13.30
376	18.	17.10
377	24.	22.80
378	26.	24.70
379	32.	30.40
380	35.	33.25
381	40.	38.00
382	44.	41.80

Item No.	Length, feet.	Price of Belt.
	12-inch.	
383	4.	$4.00
384	5.	5.00
385	6.	6.00
386	7.	7.00
387	8.	8.00
388	9.	9.00
389	12.	12.00
390	14.	14.00
391	16.	16.00
392	18.	18.00
393	20.	20.00
394	21.	21.00
395	22.	22.00
396	24.	24.00
397	25.	25.00
398	30.	30.00
399	32.	32.00
400	34.	34.00
401	35.	35.00
402	36.	36.00
403	40.	40.00
404	48.	48.00
405	50.	50.00
406	60.	60.00
	13-inch.	
407	18.	19.70
408	37.	42.55
409	60.	60.00
	14-inch.	
410	8.	9.60
411	10.	12.00
412	12.	14.00
413	16.	18.00
414	25.	30.00
415	33.	39.60
416	34.	40.80
417	35.	42.00
418	36.	43.20
419	54.	64.80
	15-inch.	
420	8.	10.40
421	10.	13.00
422	12.	15.60
423	13.	16.90
424	28.	36.40
425	30.	39.00
426	36.	46.80
427	48.	62.40
428	55.	71.50
	16-inch.	
429	8.	11.20
430	10.	14.00
431	12.	16.80
432	13.	18.20
433	14.	19.60
434	18.	25.20
435	20.	28.00
436	38.	53.20
	18-inch.	
437	6.	9.50
438	8.	12.80
439	18.	28.00
440	23.	36.80
441	28.	43.00
	19-inch.	
442	6.	9.00
443	40.	68.00
444	48.	81.60
445	58.	97.60
	20-inch.	
446	24.	42.00
447	35.	61.25
448	36.	62.00
	22-inch.	
449	18.	35.10
450	30.	58.50
451	52.	97.00
	24-inch.	
452	8.	18.40
453	10.	23.00
454	17.	38.00
455	50.	115.00
	26-inch.	
456	6.	15.00
	28-inch.	
457	28.	74.20
458	56.	144.00

HIGH GRADE GARDEN HOSE

Garden Hose. For sprinkling and fire protection. We offer in this line exceptional values. All our hose is new, fresh stock, being made up specially for us, and every length is guaranteed as represented. If it fails to give perfect satisfaction it can be returned to us any time within one year from date of purchase and we will replace it without charge. This guarantee applies only providing that the hose has not been abused. By this we mean it should not be allowed to kink. Hose kinking is due only to one thing, and that is careless handling. Before putting your hose away it should be drained carefully. If this is not done the result will be that the inner tube will decay.



Leader Hose

Lot No. G. H.1. 3-ply Leader Hose, made with best quality rubber inner tube, three closely woven, cotton layers or plies, with heavy rubber coating between each ply. The outer coating is of rubber and of the same thickness as used on our better grades of hose. This lot of hose is recommended on light or medium pressure. Price include couplings.

Size, inside diameter	½″	¾″
Price, 25 ft	$1.80	$2.00
Price, 50 ft	3.50	3.75

All ½″ hose couplings fit ¾-inch connections.

Wizard Hose

Lot No. G.H.2. 4-ply Wizard Hose. We advise the use of this grade of hose for ordinary pressure, it is made in the same general manner as our Leader hose, but the plies are heavier, making a stronger and more durable hose, which is less liable to bend or kink. With reasonable care this hose will last two or three seasons. Prices include couplings.

Size, inside diameter	½″	¾″
Price, 25 ft	$2.00	$2.50
Price, 50 ft	3.95	4.80

Tiger Hose

Lot No. G. H. 3. 5-ply Tiger Hose. Built for heavy pressure, plies are made of heavier cotton duck than used in our lower priced hose. The inner tubing and covering are made of the highest grade of rubber used for this purpose. Prices include couplings.

Size, inside diameter	¾″
Price, 25 ft	$3.00
Price, 50 ft	5.80

Boston Terrier Hose

Lot No. G. H.4. 6-ply Boston Terrier Hose. Guaranteed to stand the heaviest water works pressure and to be the best garden hose manufactured. If your city has a high pressure water works system, this is the hose we recommend. With proper care it will last for years. Prices include couplings.

Size, inside diameter	¾″
Price, 25 ft	$3.50
Price, 50 ft	6.80

Wire Wound Hose

Lot No. G. H.6. Wire wound Garden Hose. The wire protects the outer covering, also prevents kinking. We can put this winding on any of the lots of garden hose we offer except Lot No. G. H. 5.

Note: Our price does not include the hose, but is for the winding only.

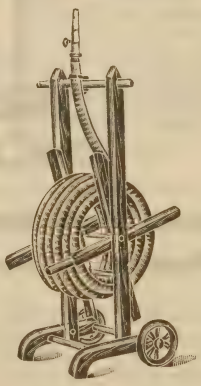
Price, 25 ft	$0.75
Price, 50 ft	1.50

Braided Cotton, Rubber Lined

Lot No. G. H.5. ¾-inch Braided Cotton, Rubber Lined Garden Hose. The jacket is made of the most carefully selected "Sea Island" cotton of long fiber, the tube is of the finest "Para" rubber, This hose is guaranteed to give good satisfaction, and is in every sense a strong, durable, and lasting hose. We have but one grade and that the best suitable for heavy pressure.

Size, inside diameter	¾″
Price, 25 ft	$2.55
Price, 50 ft	4.90

Hose Reels



Oil finished hardwood frame. Iron wheels, capacity 100 ft. ¾-inch hose. The use of a reel is recommended, as it drains the hose when winding in, also prevents the usual unnecessary wear occasioned by dragging the hose around when a reel is not used. Be sure and order a reel with your hose.

Price, no hose included, each $0.60

Suction Hose.

Lot No. H104. Wire Lined Suction Hose. Smooth Bore. For mining, excavating, sand pumps, etc. Furnished with ssoft, enlarged rubber ends, large enough for standard pipe, same sizeinside diameter as hose.

Inside diameter, 1½-inch.	Price per ft $0.51
Inside diameter, 1¾-inch.	Price per ft ..... .64
Inside diameter, 2 -inch.	Price per ft ..... .78
Inside diameter, 2½-inch.	Price per ft 1.05
Inside diameter, 3 -inch.	Price per ft 1.35
Inside diameter, 3½-inch.	Price per ft 1.65
Inside diameter, 4 -inch.	Price per ft 1 95
Inside diameter, 4½-inch.	Price per ft 2.25
Inside diameter, 5 -inch.	Price per ft 2.55
Inside diameter, 5½-inch.	Price per ft 2.85
Inside diameter, 6 -inch.	Price per ft 3.15

Steam Hose.

Lot No. H105. The tube of this hose is specially compounded to resist the action of head and effectually protect the duck. The tube of our steam hose gives most satisfactory results. Prices do not include couplings or clamps.

Inch.	3-ply, per ft.	5-ply, per ft.	6-ply, per ft.	7-ply, per ft.	8-ply, per ft.
½	$0.16	$0.19			
¾	.20	.25			
1	.25	.30			
1¼	.31	.40	.47	.55	.62
1½	.38	.47	.56	.65	.75
1¾	.45	.55	.65	.76	.87
2	.50	.62	.75	.87	1.00
2¼	.55	.70	.84	1.00	1.15
2½	.63	.78	.95	1.15	1.25

Smooth Bore Suction Hose.

Lot No. H103. Hard Rubber, Smooth Bore Suction Hose. The walls are made extra thick to prevent collapsing. Sold in lengths of 5, 10, 15, 20, 25, 30, 40, 45 or 50 feet. Prices does not include couplings or clamps.

Size, ¾".	Price per ft. $0.16½
Size, 1 .	Price per ft. ..... .19
Size, 1¼".	Price per ft. ..... .22
Size, 1½".	Price per ft. ..... .25

Water Conducting Hose.

Lot No. 106. Water Conducting Hose. For general purposes. Sold in lengths of 10, 20, 30, or 50 feet only. No couplings included.

Inside Diameter.	3-ply.	4-ply.	5-ply.	6-ply.
1 -inch	$0.12	$0.15	$0.19	$0.23
1¼-inch	.15	.19	.22	.28
1½-inch	.18	.23	.28	.34
2 -inch	.24	.30	.38	.45

Covered Tank Hose.

Lot H101. Wire Lined, Tank or Agricultural Suction Hose. The wire holds up the wall of the hose and prevents collapsing when in use. Sold in lengths of 10, 15, 20 and 25 feet only.
Size, 2 inches. Price per ft. $0.23

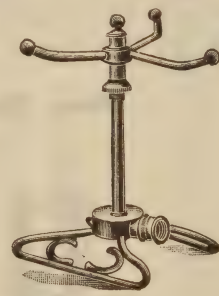
Lot H102. Premier Red Cotton Covered Wire Lined Tank Hose. Jacket is extra strong. The best suction hose on the market, fully guaranteed.
Sold in lengths of 10, 15, 20 or 25 ft.
Size, 2 inches. Price per ft. $0.34

Premier Lawn Sprinkler.

Lot No. 406. Premier Revolving Lawn Sprinkler. It throws a fine spray, covers a large circle and distributes the water evenly. Mounted on runners, which permits the changing of position without shutting off the water.

Size, ¾-inch. Price. $0.85

Whirlwind Revolving Srpinkler



Lot No. 409. Whirlwind, Revolving Sprinkler Height, 12 inches, spread of arms 13 inches. Will cover larger circle than Lot No. 406. Size, ¾-inch.
Price. $1.10

Lincoln Park Sprinkler Mounted on Spear.

Not Lo. 410. Lincoln Park Sprinkler. Mounted on spears which can be set into the ground all threaded at the base for ¾-inch hose.

Price includes head and spear, complete as shown in illustration.

No. 2.	2 ft. high.	Price, each...	$0.75
No. 4.	4 ft. high.	Price, each...	.90
No. 6.	6 ft. high.	Price, each...	1.10

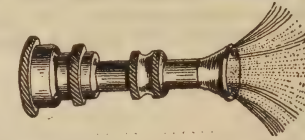
Lot No. 407. Lincoln Park Sprinkler. This sprinkler is generally used in Parks, Cemeteries, public grounds, etc., where the pressure is heavy, and by distributing water from an elevation it is presumably distributed over a larger area. No matter what position the hose or sprinkler may be in the spoon revolves rapidly. Can be attached to hose or iron pipe.

Size, ¾-inch.	Price, each. 0.30
Size, 1-inch.	Price, each. ..... $ .35

New Century Sprinkler.

Lot No. 408. New Century Sprinkler. The most simple and practical sprinkler on the market. It stands 6 inches high when in operation, and throws a fine spray. Handsomely nickel plated. Size of connection, ¾-inch. Price, each ... $0.30

Solid Brass Gem Hose Nozzel

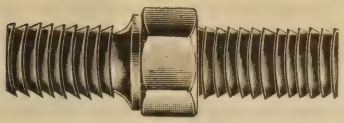


Lot No. 409. Will throw a solid stream or spray
Size, ¾-inch. Price each. $0.23
Size, 1-inch. Price, each. ..... .45

Lot No. 408. Solid Brass Screw Tip Hose Nozzle. suitable for either steam or water hose, will throw either a spray or solid stream.

Size, ¾-inch.	Price, each. $0.26
Size, 1 -inch.	Price, each. ..... .50

STEAM HOSE COUPLINGS AND NOZZELS



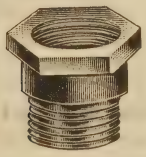
No. 413

Size, inches.	Price, each.	Size, inches.	Price, each.
½	$0.45	1½	$0.87
¼	.45	2	1.22
1	.52	2½	2.10
1¼	.75		

Water Hose Coupling

Size Hose, Inches.	Price, per set.
1	$0.18
1¼	.35
1½	.50
2	.85
2½	1.65

Hose Reducers

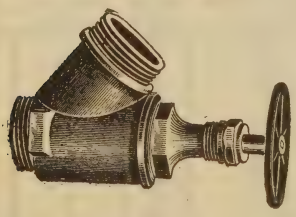


No. 414.

Size, inches.	Price, each.	Size, inches.	Price, each.
1x¾	$0.19	2x1	$0.45
1¼x¾	.24	2x1¼	.50
1¼x1	.30	2x1½	.53
1½x¾	.35	2½x¾	.60
1½x1	.35	2½x1	.65
1½x1¼	.40	2½x1¼	.70
2x¾	.42	2½x1½	.70
		2½x2	.75

Brass Hose Valves

Iron Wheels or Tee Handle.

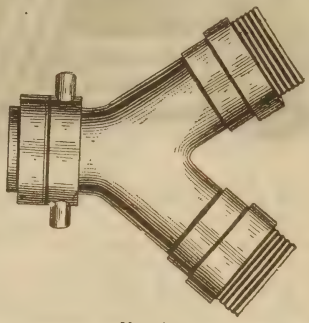


No. 411.

Size, 1½ inchs. Price, each. $2.00
Size, 2 inches. Price, each 2.50
Size, 2½ inches. Price, each 3.00

Siamese Connections

Without Valves.



No. 412.

Size, 2½ inches. Price, each $4.50

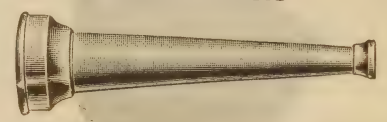
Hose Pipes

Made with drawn brass tubes and screw tip.

No. 403.

Size, inches	Length inches.	Price, each,	Size, inches,	Length inches,	Price, each
¾	7½	$0.25	2	12	$1.10
¾	12	.30	2	15	1.35
1	8½	.35	2	20	1.60
1	12½	.35	2½	15	2.30
1¼	12	.60.	2½	20	2.80
1¼	15	.70	2½	24	3.00
1½	13	.75	2½	30	4.25
1½	15	.90	2½	36	5.40

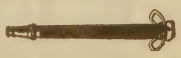
Hose Nozzels



No. 404.

Size, nches.	Length inches.	Price each.	Size, inches.	Length each.	Price, inches.
¾	3	$0.12	1½	12	$0.65
¾	8	.20	2	6¾	.77
1	4	.15	2	12	1.00
1¼	4¾	.35	2½	7½	1.10
1¼	12	.52	2½	12	1.60
1½	5¾	.52	2½	15	2.00

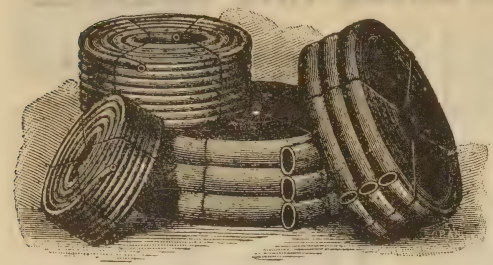
The "Underwriter" Pipe



No. 405.

2½x30-inch, Screw Nozzel, Swivel Handle, wound and painted. Price, each. $5.50

FIRE AND MILL HOSE



We are constantly securing hose of all kinds from Expositions, Public Buildings and Manufacturing Plants which we dismantle.

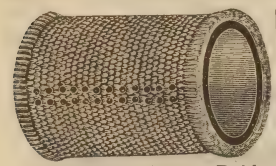
All this hose is carefully tested and guaranteed to be in good condition. It is offered subject to stock on hand at the time of receiving order and is furnished only in 50-foot lengths, complete with automatic brass couplings.

Second Hand Single Jacketed Cotton Rubber Lined Mill Hose, suitable for hotels, Factories, Public buildings, etc.

	Size.	Per length.
Lot No. F. H. 1.	1¼-inch, 50 ft.	$6.50
Lot No. F. H. 2.	1½-inch, 50 ft.	7.00
Lot No. F. H. 3.	2 -inch, 50 ft.	8.50
Lot No. F. H. 4.	2½-inch, 50 ft.	10.00

Lot No. F. H. 5. 2½-inch, second hand, double jacketed cotton, rubber lined Fire Hose. Comes in 50-foot lengths, complete with couplings.

Price per length. $20.00



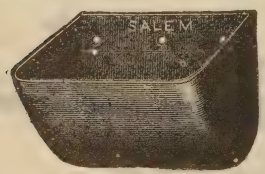
Brand New Cotton, Rubber Lined Mill Hose

Brand New Cotton, Rubber Lined Mill Hose, Single Jacket. Suitable for factories, hotels, public institutions, etc. Comes in 50-foot lengths. Complete with automatic brass couplings. Fully guaranteed.

Size.		Price per length.
Lot No. F. H. 6.	1¼-inch	$ 9.50
Lot No. F. H. 7.	1½-inch	10.00
Lot No. F. H. 8.	2 -inch	12.50
Lot No. F. H. 9.	2½-inch	14.75

Salem Elevator Buckets

BRAND NEW



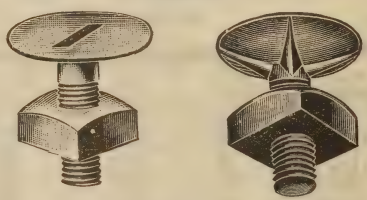
Unlined Linen Hose

Brand New Unlined Hose. This is a good grade of hose for all ordinary fire protection purposes. Used extensively in Factories, Hotels, Public Institutions, etc. Complete with brass couplings.

	Size, Inches.	Price, 50 ft. lengths.	Price, 100 ft. lengths.
Lot F. H. 10.	1¼	$5.25	$ 9.50
Lot F. H. 11.	1½	5.75	10.50
Lot F. H. 12.	2	6.75	12.25
Lot F. H. 13.	2½	8.50	14.90

Elevator Bucket Bolts

Corrugated and Slotted Head.



½x¼-inch.	Price, per 100.	$0.35
4x¼-inch.	Price, per 100.	.35
¾x¼-inch.	Price, per 100.	.35
3x¼-inch.	Price, per 100.	.42
1x¼-inch.	Price, per 100.	.42

Capacity Bushels per hour 200 feet per minute. 12 inches apart	Width Inches	Projection inches	Price Each
21	2	2	$0.01¾
40	2½	2½	.02
59	3	2½	.02½
69	3½	2½	.03
87	3	3	.03¾
102	3½	3	.04
116	4	3	.04½
131	4½	3	.05
159	4	3½	.05
179	4½	3½	.05¼
199	5	3½	.05¾
229	5	4	.07¼
251	5½	4	.07½
274	6	4	.08
500	7	4½	.12
670	8	5	.17

Capacity Bushels per hour. 200 feet per minute. 12 inches apart.	Width Inches	Projection inches	Price Each
754	9	5	$0.17½
973	10	5½	.22
1200	10	6	.25
1590	10	7	.29
1342	11	6	.30
1749	11	7	.31
1464	12	6	.32
1908	12	7	.33
1708	14	6	.34
2226	14	7	.36
1952	16	6	.37
2544	16	7	.39
2862	18	7	.42
2400	20	6	.44
3180	20	7	.45

SUPERIOR WROUGHT IRON BOOT.

The Superior Wrought Iron Boots are stronger and more durable than any other boots in the market. They are made of heavy sheet iron sides and cast iron frames, and they have extra supports or feet that hold the weight of the elevator legs. This is a very essential feature that is found in no other boot. It has side tighteners, a shield to protect bearings from dust, also oil tube for oiling. It is provided with clean-out doors either on side or end, as desired. The pulleys are well balanced and all bearings babbitted.

In ordering, give length and projection of buckets. Made with either pulleys or sprocket wheels.

PRICE LIST.

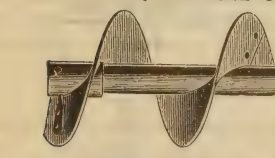
Bucket.	Belt	Pulley	Price	Bucket	Belt	Pulley	Price
4½	5	10x 6	**$12.00**	9	10	16x11	**$18.00**
5	5½	10x 6	**12.00**	10	11	16x12	**20.00**
6	7	12x 8	**12.60**	11	12	16x13	**21.60**
7	8	14x 9	**13.80**	12	13	18x14	**24.00**
8	9	14x10	**15.60**	14	15	18x16	**26.50**

CAST IRON ENDS FOR CONVEYOR BOXES.

This cast iron end for conveyor trough takes the place of a hanger or bearing. It makes a much more rigid bearing for driving ends than a hanger or outside pillow block, and costs less, when the labor and material for the foundation for outside bearing is considered. The bearing is babbitted and furnished with oil tube, as shown in cut.

Diam. Conveyor.	Diam. Shaft.	Price.	Diam. Conveyor.	Diam. Shaft.	Price.
4-in.	1 -in.	**$0.85**	9 in.	2 -in.	**$1.75**
6-in.	1½-in.	**1.10**	10-in.	1½-in.	**2.00**
8-in.	1½-in.	**1.50**	10-in.	2 -in.	**2.35**
9-in.	1½-in.	**1.65**	12-in.	2 -in.	**3.30**

SPIRAL STEEL CONVEYOR.



Outside Diam. in Inches	Standard Length	Inside Diameter of Hollow Shaft.	Regular Diameter of Projections.	Maximum Capacity per hour, Bushels.	Recommended Revolutions per Minute.	Price per Foot
3-in.	8 ft.	1⅜-in	¾-in.	60	250	**$0.50**
4-in.	8 ft.	1 -in.	1 -in.	100	220	**0.50**
5-in.	10 ft.	1½-in.	1½-in.	200	210	**0.84**
6-in.	10 ft.	1½-in.	1½-in.	350	200	**0.84**
8-in.	10 ft.	1½-in.	1½-in.	780	180	**1.00**
9-in.	10 ft.	1½-in.	1½-in.	1,100	175	**1.00**
10-in.	10 ft.	1½-in.	1½-in.	1,400	160	**1.40**
12-in.	12 ft.	2 -in.	2 -in.	2,000	150	**1.40**

Price includes steel curved lining, one hanger, one coupling and coupling with each standard length.

Across Belt.	Projection.	Price, each.
5	4	**$0.08**
5½	4	**.08½**
6	4	**.09**
7	4½	**.11**
8	5	**.12½**
9	5	**.14**
10	5½	**.18½**
11	6	**.20**
12	6	**.22**
14	6	**.25**

STEEL GRAIN BUCKETS.

TIN MILL BUCKETS.

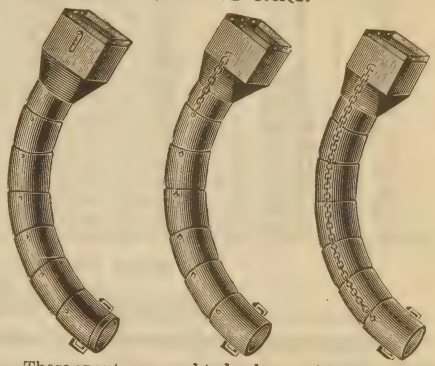
As per lists below, the smaller sizes are made of Tin and the larger of Smooth, refined Steel; the ends are double seamed to the body by special machinery, which enables us to produce a bucket which for strength and smoothness of finish has no superior.

They are guarded with band iron firmly riveted to the body, making the bucket light but firm; the shape is especially adapted to discharge readily.

TIN MILL BUCKETS.

Width on Belt.	Projection.	Price, each.	Width on Belt.	Projection.	Price, each.
2	2	**$0.02½**	4	3½	**$0.06½**
2½	2¼	**.03½**	4½	3½	**.06½**
3	3	**.04**	5	4	**.07½**
3½	3	**.04½**	5½	4	**.08**
4	3	**.05½**	6	4	**.08½**

FLEXIBLE GRAIN SPOUTS FOR TRIMMING CARS.



These spouts are used to load cars without shoveling, and will work where there is little fall from bin. No. 1 has swivel joint, Nos. 2 and 3 have chain connections. Will turn any angle. No. 1 spout sent unless otherwise ordered.

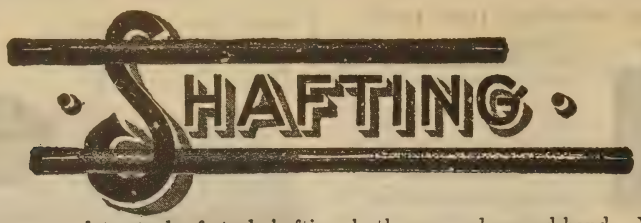
PRICE LIST.

Diameter, inches	Length feet	Size of Hopper, inches	Gauge of Steel			
			No. 18	No. 16	No. 14	No. 12
6	5	10x10	**$ 5.10**	**$ 6.00**	**$ 7.20**	**$10.25**
8	6	12x12	**6.30**	**7.20**	**9.60**	**12.75**
10	6	14x14	**7.20**	**9.00**	**10.80**	**14.00**
12	8	16x16	**11.00**	**12.00**	**15.00**	**18.00**

Extra Sections.		Gauge of Steel.			
Diam. inches	Length.	No. 18	No. 16	No. 14	No. 12
6	8½ in. long.	**$0.42**	**$0.60**	**.75**	**$0.8**
8	8½ in. long.	**.50**	**.65**	**.80**	**.90**
10	8½ in. long.	**.60**	**.80**	**.90**	**1.10**
12	8½ in. long.	**.75**	**.90**	**1.00**	**1.25**

Each Section adds 8½ inches to the length.

Special sizes made to order, any size length and any size hopper. In ordering, give size of wooden spout to which you wish the spout fitted.



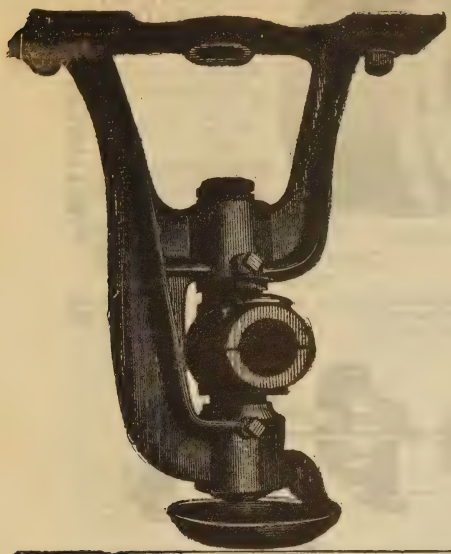
We carry a complete stock of steel shafting, both new and second-hand. We generally have on hand all sizes of second-hand shafting. It is all straight and true. Prices are for shafts from 2 feet to 24 feet long, inclusive, on lengths longer than 24 feet we charge ½ cent net per lb. extra.

Size, Inches	Weight per Foot	Second hand Price per Foot	Brand New Price per Foot	Size, Inches	Weight per Foot	Second Hand Price per Foot	Brand New Price per Foot
7/8	2.03	$0.06½	$0.07	2 5/16	14.35	$0.44	$0.48
15/16	2.34	.08	.09	2 3/8	15.07	.46	.51
1	2.68	.09	.10	2 7/16	15.90	.49	.54
1 1/16	3.00	.10	.11	2½	27.70	.51	.56
1 1/8	3.38	.11½	.13	2 9/16	17.55	.53	.58
1 3/16	3.77	.12½	.14	2 5/8	18.40	.56	.62
1¼	4.17	.14	.15½	2 11/16	19.30	.58	.64
1 5/16	4.60	.15½	.17	2¾	20.20	.61	.67
1⅜	5.05	.16½	.18	2 13/16	21.15	.64	.70
1 7/16	5.52	.18½	.20	2⅞	22.10	.67	.73
1½	6.00	.19	.21	2 15/16	23.06	.70	.77
1 9/16	6.52	.20	.22	3	24.05	.73	.80
1⅝	7.06	.21	.23	3 1/16	25.07	.82	.90
1 11/16	7.61	.23	.25	3¼	28.22	.92	1.00
1¾	8.18	.25	.28	3 5/16	29.42	.96	1.05
1 13/16	8.78	.26	.29	3 7/16	31.58	1.05	1.15
1⅞	9.39	.28	.31	3 9/16	33.96	1.14	1.25
1 15/16	10.00	.30	.33	3 13/16	38.66	1.30	1.45
2	10.70	.32	.35	3 15/16	41.04	1.37	1.50
2 1/16	11.35	.35	.38	4	42.75	1.52	1.65
2⅛	12.07	.37	.41	4 7/16	52.62	1.90	2.10
2 3/16	12.80	.39	.43	4½	54.11	2.16	2.40
2¼	13.52	.42	.46	5	67.50	3.00	3.50

PRICES FOR KEYSEATING SHAFTING
NEW OR SECOND-HAND

Diameter of Shaft	Keyseating for Coupling each end	Keyseat one foot long or less	For each additional foot or fraction of it
7/8 to 1 3/16	$0.25	$0.30	$0.20
1 7/16	.25	.30	.20
1 11/16	.30	.35	.25
1 15/16	.30	.40	.25
2 3/16	.30	.45	.25
2 7/16	.35	.50	.25
2 11/16	.40	.55	.30
2 15/16	.40	.55	.30
3 3/16	.45	.60	.35
3 7/16	.45	.65	.45
3 11/16	.50	.70	.50
3 15/16	.55	.75	.60
4 3/16	.55	.80	.60
4 7/16	.60	.85	.65
4 11/16	.60	.90	.70
4 15/16	.70	1.10	.80
5	.75	1.25	.90

In ordering second-hand shafting or couplings, it may save unavoidable delays if you will give us privilege of sending new goods, charging for the difference, provided we have not size wanted in the second-hand.



HANGERS

We have all kinds of Hangers, both new and second hand. Write us if in need of some particular kind.

BRAND NEW ADJUSTABLE BALL AND SOCKET DROP HANGERS, STANDARD BEARINGS, SINGLE BRACE.

We guarantee them in every way. They are absolutely the best goods on the market.

DROP IN INCHES.

Size of Shaft.	8	10	12	14	16	18	20	24	30	36
1 3-16 and 1 1-4	$1.40	$1.45	$1.55	$1.60	$1.65	$ 1.80	$ 1.95			
1 7-16 " 1 1-2	1.60	1.65	1.70	1.80	1.85	1.95	2.15			
1 11-16 " 1 3-4	1.65	1.70	1.75	1.85	1.95	2.00	2.20			
1 15-16 " 2	2.20	2.40	2.45	2.55	2.70	2.75	2.90	$ 3.20		
2 3-16 " 2 1-4	2.85	3.00	3.05	3.20	3.40	3.55	3.85	4.55	$ 5.25	
2 7-16 " 2 1-2	3.10	3.20	3.25	3.40	3.65	3.80	4.10	4.60	5.55	
2 11-16 " 2 3-4	3.50	3.65	3.80	3.95	4.40	4.75	5 10	5.95	6.65	$ 7.00
2 15-16 " 3	4.20	4.35	4.55	4.65	5.05	5.45	5.80	6.65	7.35	7.50
3 3-16 " 3 1-4			5.60	5.70	6.00	6.50	7.25	8.25	9.35	9.90
3 7-16 " 3 1-2			5.70	5.80	6.15	6.65	7.35	8.40	9.45	10.00
3 11-16 " 3 3-4			7.25	8.65	8.15	8.95	9.60	11.45	12.60	14.35
3 15-16 " 4			8.75	9.00	9.80	10.00	10.80	12.60	13.80	15.40

SECOND HAND DROP HANGERS.

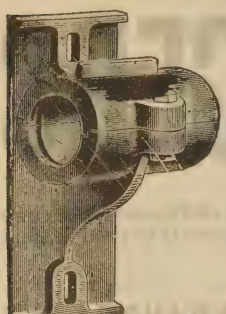
These second-hand hangers are in good condition. In ordering them please state whether you will allow us privilege of substituting new hangers, charging you for the difference providing we our out of kind ordered.

DROP IN INCHES.

Size of Shaft.	8	10	12	14	16	18	20	24	30	36
1 3-16 and 1 1-4	$1.10	$1.15	$1.20	$1.25	$1.30	$1.40	$1.50			
1 7-16 " 1 1-2	1.25	1.30	1.35	1.40	1.45	1.50	1.60			
1 11-16 " 1 3-4	1.30	1.35	1.40	1.45	1.50	1.55	1.65			
1 15-16 " 2	1.70	1.75	1.85	1.90	2.00	2.10	2.15	$2.45		
2 3-16 " 2 1-4	2.20	2.25	2.30	2.45	2.55	2.75	2.95	3.50	$ 4.00	
2 7-16 " 2 1-2	2.35	2.40	2.45	2.50	2.80	2.90	3.20	3.65	4.30	
2 11-16 " 2 3-4	2.70	2.80	3.00	3.10	3.35	3.75	4.20	4.50	5.10	$ 5.40
2 15-16 " 3	3.20	3.30	3.50	3.60	3.80	4.15	4.45	5.10	5.60	6.00
3 3-16 " 3 1-4			4.30	4.40	4.50	5.00	5.50	6.25	7.25	7.80
3 7-16 " 3 1-2			4.40	4.60	4.70	5.10	5.60	6.50	7.30	7.90
3 11-16 " 3 3-4			5.90	6.75	6.80	7.00	7.65	8.75	9.00	11.00
3 15-16 " 4			6.75	7.00	7.50	7.80	8.10	9.00	10.75	12.00

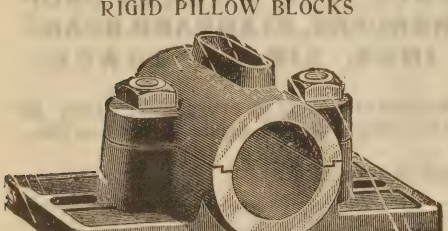
We have anything you need in mill supplies.

RIGID POST BLOCKS



Size of Shaft.	Price Each.
15-16 inch	$0.95
1 inch	1.00
1 3-16 inch	1.10
1 7-16 inch	1.20
1 11-16 inch	1.40
1 15-16 inch	1.75
2 3-16 inch	2.00
2 7-16 inch	2.40
2 11-16 inch	2.95
2 15-16 inch	3.50
3 3-16 inch	3.75
3 7-16 inch	5.40
3 11-16 inch	6.00
3 15-16 inch	7.00
4 3-16 inch	8.00
4 7-16 inch	8.50
4 11-16 inch	10.00
4 15-16 inch	12.00

RIGID PILLOW BLOCKS

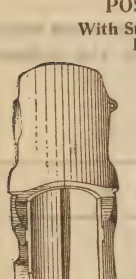


Always on hand a complete stock of New Plain Right Pillow Blocks. They are babbitted. Heavy and suitable for all ordinary work.

Size of shaft.	Price Each.
15-16 inch	$0.46
1 inch	.50
1 3-16 inch	.56
1 7-16 inch	.70
1 1-2 inch	.75
1 11-16 inch	.90
1 15-16 inch	1.15
2 inch	1.20
2 3-16 inch	1.40
2 7-16 inch	1.75
2 11-16 inch	3.10
2 15-16 inch	2.70
3 inch	2.85
3 3-16 inch	3.15

ADJUSTABLE BALL AND SOCKET POST HANGERS

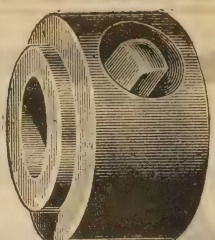
With Standard Bearings.
Brand New.



Box for Post Hanger.

Frame of Post Hanger.

Size in.	Price.
15-16	$1.50
1 3-16	1.55
1 7-16	1.90
1 11-16	1.95
1 15-16	2.50
2 3-16	3.45
2 7-16	3.60
2 11-16	4.50
2 15-16	5.45



SAFETY SET COLLARS

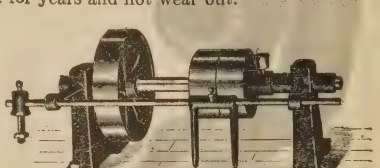
Brand New.

Size in.	Price.
15-16	$0.15
1 3-16	.18
1 7-16	.23
1 11-16	.27
1 15-16	.30
2 3-16	.35
2 7-16	.40
2 11-16	.47
2 15-16	.55

COUNTER SHAFTS

Brand New.

All Loose Pulleys on the countershafts have long chamber hubs fitted with grease cup and will run for years and not wear out.



No. 1.

No. 1. Size of Drive Pulley	8x2 ins
Size of Tight and Loose Pulleys	3¾x1½ ins.
Length of Shaft	17 ins
Drop of Hangers	5 ins.
Diameter of Shaft	⅞ ins.
Weight complete	24 lbs
Price	$2.50

Will fit our No. 1 Bench Emery Grinder.

Size of Drive Pulley	9x2 ins
Size of Tight and Loose Pulleys	5x2 ins.
Drop of Hanger	6½ ins
Diameter of Shaft	1 in
Weight complete	38 lbs.
Price	$3.75

Will fit our No. 2 Bench Emery Grinder.

No. 3.

Size of Drive Pulley	10x3½ inches
Size of Tight and Loose Pulley	5x3 inches
Drop of Hanger	6½ inches.
Length of Shaft	24 inches.
Diameter of Shaft	1 inch.
Weight, Complete	44 pounds.
Price	$4.50

Will fit our No. 3 Bench Emery Grinders.

No. 4.

Size of Drive Pulley	12x4 inches.
Size of Tight and Loose Pulley	6x3½ inches
Drop of Hanger	8 inches
Length of Shaft	26 inches
Diameter of Shaft	1¼ inch
Weight complete	58 pounds.
Price	$5.00

Will fit our No. 4 Bench Emery Grinder.

No. 5.

Size of Drive Pulleys	12x4 inches
Size of Tight and Loose Pulleys	6x4 inches
Drop of Hangers	9 inches.
Length of Shaft	30 inches
Diameter of Shaft	1¼ inch.
Weight Complete	75 pounds
Price	$7.00

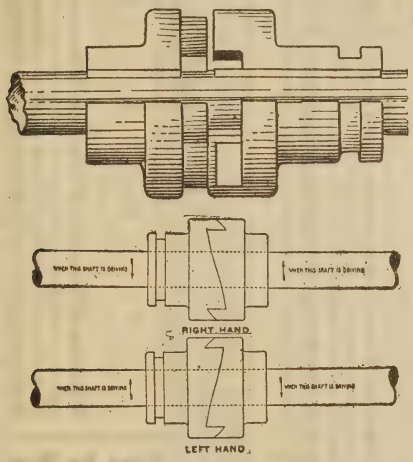
CLUTCH JAW COUPLINGS

Prices do not include Clutch Band and Lever. The Spiral Jaws are made either right or left hand. Always specify when ordering the spiral jaws which hand is wanted. Note illustration.

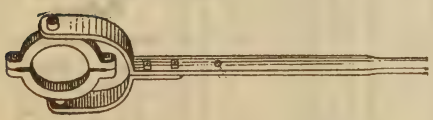
SPIRAL JAW CLUTCH COUPLINGS

Size.	Price, Either Square or Spiral.
15-16	$ 2.35
13-16	3.05
1 7-16	3.75
1 11-16	4.40
1 15-16	5.25
2 3-16	6.00
2 7-16	7.75
2 11-16	10.00
2 15-16	11.35
3 3-16	14.50
3 7-16	16.50
3 11-16	18.75
3 15-16	21.50

SQUARE JAW CLUTCH COUPLING



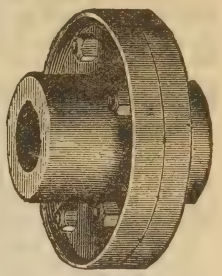
CLUTCH BAND LEVERS



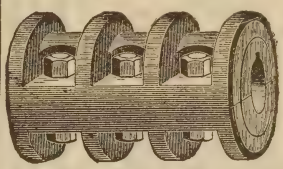
SIZE	Price of Lever Including Clutch Band.	Price Clutch Band only.
15-16	$ 2.00	$ 0.50
1 3-16	2.50	.58
1 7-16	2.75	.70
1 11-16	3.25	.85
1 15-16	3.80	1.00
2 3-16	4.40	1.15
2 7-16	4.95	1.35
2 11-16	5.60	1.50
2 15-16	6.40	1.70
3 3-16	7.20	1.90
3 7-16	8.00	2.15
3 11-16	9.00	2.45
3 15-16	11.00	2.70

FLANGE COUPLINGS.

Size.	Brand New.	Second Hand.
1 3-16	$2.70	$1.75
1 7-16	2.85	1.85
1 11-16	3.05	2.00
1 15-16	3.25	2.25
2 3-16	3.78	2.50
2 7-16	4.50	3.00
2 11-16	5.50	3.90
2 15-16	6.50	4.50
3 3-16	6.80	4.65
3 7-16	9.00	6.50
3 11-16	10.00	7.00
3 15-16	11.75	8.00



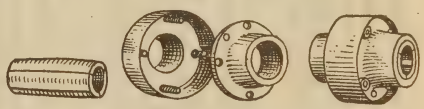
RIBBED COMPRESSION COUPLINGS



Size.	Brand New.	Second Hand.
1 3-16	$1.75	$1.25
1 7-16	2.15	1.50
1 11-16	2.50	1.75
1 15-16	2.85	2.00
2 3-16	3.20	2.25
2 7-16	3.85	2.50
2 11-16	4.65	3.25
2 15-16	6.00	4.25

SHAW PATENT COMPRESSION COUPLINGS

Require No Key Seat. Guaranteed to Hold. Brand New Only.

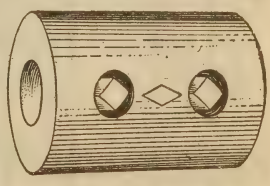


Sizes..	15-16	1	1 3-16	1 5-16	1 7-16
Price..	$1.05	1.40	1.75	1.75	1.90
Sizes..	1 11-16	1 15-16	2 3-16	2 7-16	
Price..	$2.15	2.40	3.15	3.75	

SOLID SLEEVE COUPLINGS

For Light Shafting. Brand New Only.

Size.	Price.
15-16	$1.05
1 3-16	1.25
1 5-16	1.35
1 7-16	1.45
1 11-16	1.60



NOTE—We Quote Prices on Second Hand Couplings subject to stock on hand at the time we receive your order. In event we are out of second hand material we will substitute the new at prices above quoted.

IRON PULLEYS.

Always on hand, all sizes and diameters, finished iron pulleys, machine molded, bored turned and balanced, fitted set screws only. For boring and keyseating second-hand pulleys when necessary an extra charge will be made. New pulleys will be furnished either key-seated or fitted with set screws at prices quoted, which we guarantee. Owing to lack of space we cannot list all sizes. Send list in your order for all sizes and we will fill them at prices in proportiou.

Second Hand Pulleys

Diam. Inches	Face In hes	Single Belt
6	4	$0.52
	5	.57
	6	.63
	7	.70
	8	.76
8	4	.60
	5	.68
	6	.74
	7	.80
	8	.85
	9	.90
	10	1.04
	11	1.12
	12	1.20
	14	1.50
10	4	.60
	5	.75
	6	.85
	7	.92
	8	1.00
	9	1.10
	10	1.20
	11	1.25
	12	1.38
	14	1.60
12	4	.70
	5	.88
	6	.96
	7	1.05
	8	1.15
	9	1.25
	10	1.35
	11	1.45
	12	1.55
	14	1.80
	16	2.10
14	4	.90
	5	.98
	6	1 08
	6	1.08
	7	1.18
	6	1.30
	9	1.40
	10	1.50
	11	1.65
	12	1.85
14	14	2.05
	16	2.40
16	4	1.00
	5	1.10
	6	1.25
	7	1.35
	8	1.45
	9	1.60
	10	1.70
	11	1.85
	12	2.00
	14	2.35
	16	2.75
18	4	1.10
	5	1.25
	6	1.35
	7	1.50
	8	1.65
	9	1.80
	10	1.95
	11	2.10
	12	2.25
	14	2.70
	16	3.15
20	4	1.25
	5	1.40
	6	1.55
	7	1.70

Diam Inches	Face Inches	Single Belt	Double Belt
20	8	$1.90	
	9	2.05	
	10	2.20	
	11	2.40	
	12	2.60	
	14	3.10	
	16	3.60	
22	4	1.40	
	5	1.60	
	6	1.70	
	7	1.90	
	8	2.10	
	9	2.30	
	10	2.50	
	11	2.70	
	12	2.90	
	14	3.50	
	16	$4.10	$5.60
24	4	1.50	2.05
	5	1.70	2.35
	6	1.90	2.65
	7	2.10	3.00
	8	2.30	3.35
	9	2.55	3.70
	10	2.75	4.05
	11	3.00	4.40
	12	3.30	4.75
	14	3.90	5.50
	16	4.60	6.25
26	4	1.70	2.30
	5	1.90	2.65
	6	2.15	3.00
	7	2.35	3.25
	8	2.65	3.75
	9	2.90	4.10
	10	3.15	4.50
	11	3.45	4.90
	12	3.75	5.25
	14	4.40	6.15
	16	5.10	7.00
28	4	1.90	2.50
	5	2.10	2.85
	6	2.35	3.30
	7	2.65	3.70
	8	2.90	4.10
	9	3.20	4.50
	10	3.30	4.95
	11	3.85	5.40
	12	4.20	5.85
	14	4.90	6.25
	16	5.65	7.75
30	4	2.15	2.75
	5	2.35	3.15
	6	2.65	3.65
	7	2.95	4.05
	8	3.25	4.50
	9	3.60	4.95
	10	3.95	5.40
	11	4.30	5.90
	12	4.65	6.40
	14	5.40	7.50
	16	6.15	8.55
32	4		3.05
	5		3.50
	6		4.00
	7		4.50
	8		4.95
	9		5.55
	10		5.95
	11		6.50
	12		7.00
	14		8.20
	16		9.40
34	4		3.40
	5		3.90
	6		4.40
	7		4 95
	8		5 40
	9		5.45

Diam Inches	Face Inches	Double Belt
34	10	$6.00
	11	6.55
	12	7.65
	14	8.90
	16	10.20
36	4	3.70
	5	4.25
	6	4.80
	7	5.40
	8	5.95
	9	6.50
	10	7.10
	11	7.70
	12	8.90
	14	7.70
38	4	4.10
	5	4.30
	6	5.30
	7	5.90
	8	6.50
	9	7.10
	10	7.70
	11	8.35
	12	9.00
	14	10.40
	16	12.30
40	4	4.50
	5	4.90
	6	5.75
	7	6.40
	8	7.05
	9	7.70
	10	8.35
	11	9.05
	12	9.70
	14	11.20
	16	13.20
42	4	4.85
	5	5.55
	6	6.20
	7	6.90
	8	7.60
	9	8.30
	10	9.00
	11	9.70
	12	10.40
	14	12.00
	16	13.60
44	4	5.25
	5	6.00
	6	6.75
	7	7.45
	8	8.20
	9	8.95
	10	9.70
	11	10.45
	12	11.25
	14	12.90
	15	14.63
46	4	5.70
	5	6.45
	7	8.00
	8	8.80
	9	9.60
	10	10.40
	11	11.20
	12	12.05
	14	13.80
	16	15.65
	18	17.50
	20	19.35
	22	21.20
	24	23.05
	26	24.95
	28	26.90
48	4	6.15
	5	6.95
	6	7.75
	7	8.60

Diam. Inches	Face Inches	Double Belt
48	8	9.45
	9	10.30
	10	11.15
	11	12.00
	12	12.90
	14	14.75
	16	16.70
	18	18.65
	20	20.60
	22	22.55
	24	24.50
	26	26.50
	28	28.50
54	6	9.45
	7	10.35
	8	11.25
	9	12.15
	10	13.15

Brand New Pulleys.

Diam Inches	Face Inches	Single Belt
4	3	$1.07
	4	1.16
	5	1.27
	6	1.40
	8	1.68
6	3	1.07
	4	1.16
	5	1.27
	6	1.40
	8	1.68
7	3	1.16
	4	1.24
	5	1.38
	6	1.51
	8	1.79
8	3	1.24
	4	1.35
	5	1.49
	6	1.62
	8	1.90
	10	2.28
9	3	1.32
	4	1.43
	5	1.57
	6	1.73
	8	2.06
	10	2.45
10	3	1.40
	4	1.51
	5	1.87
	6	1.87
	8	2.23
	10	2.61
11	3	1.49
	4	1.62
	5	1.79
	6	1.98
	8	2.39
	10	2.78
12	3	1.57
	4	1.73
	5	1.93
	6	2.12
	8	2.50
	10	2.94
13	3	$1.68
	4	1.84
	5	2.04
	6	2.26
	8	2.70
	10	3.14
14	3	1.79

Diam. Inches	Face Inches	Single Belt
14	4	$1.95
	5	2.15
	6	2.39
	8	2.86
	10	3.36
15	3	1.87
	4	2.05
	5	2.28
	6	2.53
	8	3.03
	10	3.55
16	3	1.98
	4	2.17
	5	2.42
	6	2.70
	8	3.22
	10	3.77
	12	4.40
17	3	2.09
	4	2.31
	5	2.59
	6	2.86
	8	3.41
	10	4.01
	12	4.68
18	3	2.20
	4	2.45
	5	2.72
	6	3.03
	8	3.63
	10	4.26
	12	5.00
19	3	2.34
	4	2.59
	5	2.89
	6	3.22
	8	3.88
	10	4.57
	12	5.36
20	3	2.45
	4	2.72
	5	3.05
	6	3.41
	8	4.12
	10	4.87
	12	5.72
21	3	2.59
	4	2.89
	5	3.22
	6	3.60
	8	4.37
	10	5.17
	12	6.08
22	3	2.70
	4	3.05
	5	3.38
	6	3.80
	8	4.62
	10	5.47
	12	6.44
23	3	2.83
	4	3.19
	5	3.58
	6	3.99
	8	4.87
	10	5.78
	12	6.82
24	3	2.97
	4	3.36
	5	3.77
	6	4.21
	8	4.65
	10	6.11
	12	7.23
25	3	3.16
	4	3.57
	5	3.99
	6	4.46
	8	5.45

Diam Inches	Face Inches	Single Belt
25	10	$6.52
	12	7.73
26	3	3.30
	4	3.80
	5	4.21
	6	4.73
	8	5.80
	10	6.93
	12	8.25
27	3	3.49
	4	4.02
	5	4.48
	6	4.98
	8	6.11
	10	7.34
	12	8.75
28	3	3.71
	4	4.24
	5	4.68
	6	5.23
	8	6.44
	10	7.21
	12	9.27
30	3	4.18
	4	4.70
	5	5.20
	6	5.80
	8	7.15
	10	8.66
	12	10.23
32	3	4.65
	4	5.17
	5	5.75
	6	6.41
	8	7.92
	10	9.57
	12	11.30
34	3	5.17
	4	5.72
	5	6.33
	6	7.10
	8	8.72
	10	10.51
	12	12.38
36	3	5.72
	4	6.27
	5	6.96
	6	7.76
	8	9.54
	10	11.47
	12	13.48

Extra for Tight and Loose Pulleys.

Diam. Inches	Price Per pr.
6 to 8	$ .80
9 to 10	.98
11 to 12	1.15
13 to 14	1.33
15 to 16	1.50
17 to 18	1.65
19 to 20	1.85
21 to 22	2.03
23 to 24	2.20
25 to 26	2.38
27 to 28	2.60
29 to 30	2.23
31 to 32	2.90
33 to 34	3.08
35 to 36	3.25

WOOD PULLEYS

Split

We carry in stock at all times, a complete assortment of **Fine Quality Wood Split Pulleys.** Each pulley is complete with bushings. They are guaranteed in every way.

Diam., In.	FACE, INCHES.												
	3	4	5	6	8	10	12	14	16	18	20	22	24
4	1.12	1.16	1.24	1.32	1.48	1.64	1.80	.....	.....	.....	.....	.....	.....
5	1.14	1.18	1.28	1.36	1.54	1.72	1.90	.....	.....	.....	.....	.....	.....
6	1.16	1.20	1.30	1.40	1.60	1.80	2.00	.....	.....	.....	.....	.....	.....
7	1.18	1.22	1.34	1.44	1.66	1.88	2.10	2.32	.....	.....	.....	.....	.....
8	1.20	1.24	1.36	1.48	1.72	1.96	2.20	2.44	.....	.....	.....	.....	.....
9	1.24	1.30	1.44	1.56	1.82	2.08	2.34	2.60	.....	.....	.....	.....	.....
10	1.30	1.36	1.50	1.64	1.92	2.20	2.48	2.76	3.04	.....	.....	.....	.....
11	1.40	1.48	1.64	1.80	2.12	2.44	2.76	3.08	3.40	.....	.....	.....	.....
12	1.50	1.60	1.78	1.96	2.32	2.68	3.04	3.40	3.76	4.12	.....	.....	.....
13	.....	1.72	1.92	2.12	2.52	2.92	3.32	3.92	4.12	4.52	.....	.....	.....
14	.....	1.84	2.06	2.28	2.72	3.16	3.60	4.04	4.48	4.92	5.36	.....	.....
15	.....	1.96	2.20	2.44	2.92	3.40	3.88	4.36	4.84	5.32	5.80	.....	.....
16	.....	2.08	2.34	2.60	3.12	3.64	4.16	4.68	5.20	5.72	6.24	6.76	.....
17	.....	2.20	2.48	2.76	3.32	3.88	4.44	5.00	5.56	6.12	6.68	7.24	.....
18	.....	2.32	2.62	2.92	3.52	4.12	4.72	5.32	5.92	6.52	7.12	7.72	8.32
19	.....	2.44	2.76	3.08	3.72	4.36	5.00	5.64	6.28	6.92	7.56	8.20	8.84
20	.....	2.56	2.90	3.24	3.92	4.60	5.28	5.96	6.64	7.32	8.00	8.68	9.36
22	.....	2.80	3.18	3.56	4.32	5.08	5.84	6.60	7.36	8.12	8.88	9.64	10.40
24	.....	3.08	3.52	3.96	4.84	5.32	6.60	7.48	8.36	9.24	10.12	11.00	11.88
26	.....	3.36	3.86	4.36	5.36	6.36	7.36	8.36	9.36	10.36	11.36	12.36	13.36
28	.....	3.64	4.20	4.76	5.88	7.00	8.12	9.24	10.36	11.48	12.60	13.72	14.84
30	.....	3.92	4.54	5.16	6.40	3.64	8.88	10.12	11.36	12.60	13.84	15.08	16.32
32	.....	4.20	4.84	5.56	6.92	8.28	9.64	11.00	12.36	13.72	15.08	16.44	17.80
34	.....	4.52	5.26	6.00	7.48	8.96	10.44	11.92	13.40	14.88	16.36	17.84	19.32
36	.....	4.84	5.64	6.44	8.04	9.64	11.24	12.84	14.44	16.04	17.64	19.24	20.84
38	.....	.....	.....	6.88	8.60	10.32	12.04	13.76	15.48	17.20	18.92	20.64	22.36
40	.....	.....	.....	7.32	9.16	11.00	12.84	14.68	16.52	18.36	20.20	22.04	23.88
42	.....	.....	.....	7.84	9.84	11.84	13.84	15.84	17.84	19.84	21.84	23.84	25.84
44	.....	.....	.....	8.36	10.52	12.68	14.84	17.00	19.16	21.32	23.48	25.64	27.80
46	.....	.....	.....	8.92	11.24	13.56	15.88	18.20	20.52	22.84	25.16	27.48	29.80
48	.....	.....	.....	9.52	12.00	14.48	16.96	19.44	21.92	24.40	26.88	29.36	31.84
50	.....	.....	.....	10.16	12.80	14.44	18.08	20.72	23.36	26.00	28.64	31.28	33.92
52	.....	.....	.....	10.84	13.64	16.44	19.24	22.04	24.84	27.64	30.44	33.24	36.04
54	.....	.....	.....	11.56	14.52	17.48	20.44	23.40	26.26	29.32	32.28	35.24	38.20
56	.....	.....	.....	12.32	15.44	18.56	21.68	24.80	27.92	31.04	34.16	37.28	40.40
58	.....	.....	.....	13.12	16.40	19.68	22.96	26.24	29.52	32.80	36.08	39.36	42.64
60	.....	.....	.....	13.96	17.40	20.84	24.28	27.72	31.16	34.60	38.04	41.48	44.92
62	.....	.....	.....	14.84	18.44	22.04	25.64	29.24	32.84	36.44	40.04	43.64	47.24
64	.....	.....	.....	15.76	19.52	23.28	27.04	30.80	34.56	38.32	42.08	45.84	49.60
66	.....	.....	.....	16.76	20.72	24.68	28.64	32.60	36.56	40.52	44.48	48.44	52.40
68	.....	.....	.....	17.80	21.96	26.12	30.28	34.44	38.60	42.76	46.92	51.08	55.24
70	.....	.....	.....	18.88	23.24	27.60	31.96	36.32	40.68	45.04	49.40	53.76	58.12
72	.....	.....	.....	20.00	24.56	28.84	33.68	38.24	42.80	47.36	51.92	56.48	61.04
78	.....	.....	.....	.....	28.76	33.92	39.08	44.24	49.40	54.56	59.72	64.88	70.04
84	.....	.....	.....	.....	33.32	39.08	44.84	50.60	56.36	62.12	67.88	73.64	79.40
90	.....	.....	.....	.....	38.24	44.60	50.96	57.32	63.68	70.04	76.40	82.94	89.12
96	.....	.....	.....	.....	43.60	50.60	57.60	64.60	71.60	78.60	85.60	92.60	99.60
102	.....	.....	.....	.....	49.48	57.20	64.92	72.64	80.36	88.08	95.80	103.32	111.24
108	.....	.....	.....	.....	55.72	64.16	72.60	81.04	89.48	97.92	106.36	114.80	123.24
114	.....	.....	.....	.....	62.32	71.48	80.64	89.80	97.96	108.12	117.28	126.44	135.60
120	.....	.....	.....	.....	69.28	79.16	89.04	98.92	108.80	118.68	128.56	138.44	148.32

WE BOUGHT COMPLETE CABLE SYSTEM OF CHICAGO CITY RAILWAY CO.

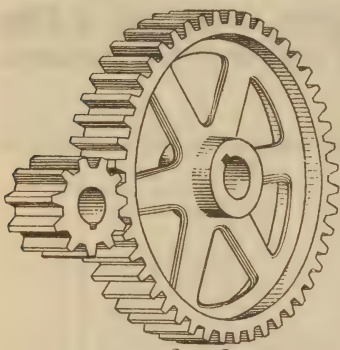
One of the largest and most comprehensive purchases of this kind ever made. It includes over 600 Street Cars, 30 miles of Track, 3 complete Power Houses and hundreds of items of miscellaneous character.

Included in this lot we have two Belts, leather covered, canvas inside, extra thick and heavy, 7 feet wide, which we can cut down to such size as would be suitable for your purpose.

All kinds of Corliss Engines, Boilers, Shafting, Hangers, Pulleys and miscellaneous supplies. If you are interested, give us a memorandum of your requirements.

Gears and Steel Face Pulleys

Gears of All Kinds, New and Second Hand



Spur Gears.

Send us your specifications. We have a large stock of second hand gears which it is impossible to list, but the chances are that we can supply your requirements When writing us regarding gears which we furnish in pairs only, give us the following information:

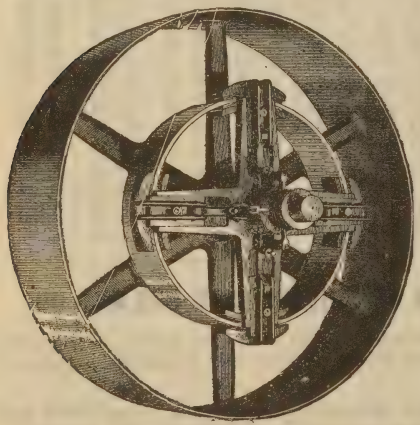
Bevel Gear.

Miter Gear.

State whether Spur, Bevel, or Mitre Gears are wanted.

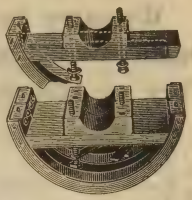
Size of both gear and pinions.
Size of shaft on which both gears are to run.
State speed of shafts and mention the number of horse power you wish to transmit.

Friction Clutch Pulleys



We purchased at a Sheriff's Sale twenty Friction Clutch Pulleys. They are strictly brand new and perfect in every way. All one size. Diameter 46 inches, Face 13 inches, bore 2 7-16 inches. These pulleys were built by one of the leading manufacturers and we guarantee them fully.
Price, each.....$15.00

HERCULES STEEL FACE PULLEYS



We purchased at a recent sale, three carloads of these pulleys. They are all guaranteed new and perfect in every way. We are offering you the most perfect and scientific pulley on the market.

The rim is formed from the best quality of cold rolled sheet steel.

The arms are made of selected and thoroughly seasoned maple.

The flanges and inner surface of the rim are painted, and the surface covered with glass varnish.

The wood is soaked in hot linseed oil—to prevent warping—and coated with the best waterproof paint.

The rim is fastened to the center by bolts through the face, and by rivets through the flanges.

It is fully guaranteed.

It is very strong and very light.

It is not harmed in the least by atmospheric changes.

It is the most economical to buy, to install, and to operate.

Metal-fastened belts do not harm its surface.

Oil and dust will not accumulate and cake on its surface.

An abundance of clamping bolts, a minimum distance from the shaft, give a maximum clamping power without injury to the shaft.

It has the best face for a maximum load with a loose belt.

Sizes on Hand and Net Prices Each

Diam. in.	FACE IN INCHES.						
	3	4	5	6	8	10	12
8				$1.00			
10	$0.95	$1.00	1.10				
12							
14	1.15	1.25	1.35	1.45	$1.75		
16	1.30	1.49	1.50				
18	1.40	1.55					
20	1.55	1.75	1.95	2.15			
22		1.85	2.10	2.35	2.80		
24			2.35				

ORDER AS FOLLOWS;

1st—Number of pulleys.
2d—Diameter in inches.
3d—Width of face in inches.
4th—Exact size of shaft.
5th—Whether straight or crown free.

(Unless otherwise ordered, crown face will be sent.)

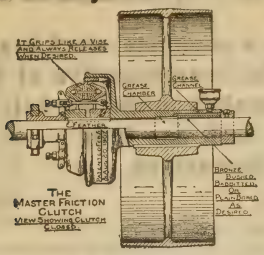
One wood bushing is included in the price of each standard bore pulley

Pulleys 8 inch and smaller can be furnished to fit shafting of any size up to and including 2 7-16 inches.

Pulleys 10 inches and larger can be furnished to fit shafting of any size up to and including 3 7-16 inches.

MASTER'S FRICTION CLUTCH PULLEY

Strictly Brand New.


IT GRIPS LIKE A VISE AND ALWAYS RELEASES WHEN DESIRED
GREASE CHAMBER
GREASE CHAMBER
PACKING
FEATHER
BRONZE BUSHED BABBITTED OR PLAIN BORE AS DESIRED
THE MASTER FRICTION CLUTCH
VIEW SHOWING CLUTCH CLOSED

The Outside and Inside Jaws are the same for Clutch Pulleys as they are for Clutch Couplings, consequently the Keyseat for the Feather, and the Feather itself are the same in both cases. The Drum, however, is not keyed to the shaft but is loose on the shaft and is attached to the Pulley or Sheave, the shaft extending right through the Jaws and Drum. Supply the grease chamber with plenty of grease.

The Pulleys, etc., are bored out to fit the sleeve of the Drum; therefore, a Wood Split, Steel Split, or any Pulley, Sheave, Gear, etc., can be made to slip on the sleeve.

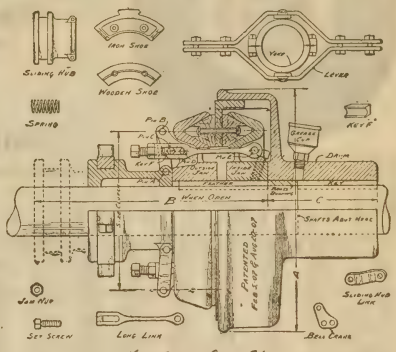
Note:—Close the Clutch to adjust it. In this way you can feel that you are tightening the adjusting screws alike.
This applies to all clutches.

MASTER'S FRICTION CLUTCH PULLEYS
Strictly Brand New.

Size of Pulley, Inches.	H. P. at 100 R. P. M. D. Belt.	Largest Bore of Pulley with Standard Clutch.	Pulley. Space Req'ir'd on Shaft Not Including Collar.	Clutch. Space Req'ir'd on Shaft Not Including Collar.	Total Space.	Price of Clutch Pulleys Complete.
8x 4	1.6	1 7/16	4½	9½	14	$14.00
6	2.4	1 7/16	6½	9½	16	14.50
8	3.2	1 7/16	8½	9½	18	15.00
10	4	1 7/16	10½	9½	20	15.60
10x 4	2	1 7/16	4½	10½	15	18.75
6	3	1 7/16	6½	10½	17	19.00
8	4	1 7/16	8½	10½	19	19.50
10	5	1 7/16	10½	10½	21	20.00
12x 6	3.6	2 7/16	6½	10½	17	25.00
8	4.8	2 7/16	8½	10½	19	26.00
10	6	2 7/16	10½	10½	21	27.00
12	7.2	2 7/16	12½	10½	23	25.00
14x 6	4.2	2 7/16	6½	10½	17	26.00
8	5.6	2 7/16	8½	10½	19	27.00
10	7	2 7/16	10½	10½	21	27.50
12	8.4	2 7/16	12½	10½	23	30.00
14	9.8	2 7/16	14½	11⅝	26⅝	25.00
16x 6	4.8	2 7/16	6½	10½	17	28.00
8	6.4	2 7/16	8½	10½	19	31.00
10	8	2 7/16	10½	10½	21	35.00
12	9.6	2 7/16	12½	11⅞	24⅜	38.00
14	11.2	2 7/16	14½	11⅞	26⅜	27.00
18x 6	5.4	2 7/16	6½	10½	17	29.50
8	7.2	2 7/16	8½	10½	19	32.00
10	9	2 7/16	10½	11⅞	22⅜	27.00
12	10.8	2 7/16	12½	11⅞	24⅜	37.00
14	12.6	2 7/16	14½	11⅞	26⅜	29.00
20x 6	6	2 7/16	6½	10½	17	31.50
8	8	2 7/16	8½	10½	19	34.00
10	10	2 7/16	10½	11⅞	22⅜	37.00
12	12	2 7/16	12½	11⅞	24⅜	40.00
14	14	3 7/16	14½	11⅞	26⅜	31.70
22x 6	6.6	2 7/16	6½	10½	17	34.50
8	8.8	2 7/16	8½	11⅞	20⅜	37.50
10	11	2 7/16	10½	11⅞	22⅜	40.00
12	13.2	2 7/16	12½	11⅞	24⅜	44.00
14	15.4	3 7/16	14½	11⅞	26⅜	53.75
24x 6	7.5	2 7/16	6½	10½	17	33.75
8	10	2 7/16	8½	11⅞	20⅜	37.75
10	12.5	2 7/16	10½	11⅞	22⅜	40.00
12	15	3 7/16	12½	11⅞	24⅜	44.00
14	18	3 7/16	14½	11⅞	26⅜	48.00

MASTER'S FRICTION CLUTCH COUPLING.

Strictly Brand New.



View Showing Outfit Closed.

Directions for Attaching Friction Clutch Couplings to Shafting:

The keyseat in the Shaft for the Feather, which drives the Jaws, should be cut as shown, leaving a space on the end of the Shaft to run in the Bronze Bushing, which fits in the Drum. The length of this Bronze Bushing is given in the table for each size Clutch. The length of the Feather which fits in the keyseat is also given for each size Clutch, and must be tightly calked in Shaft.

The outside Jaw slides endwise on Feather when the Clutch is thrown in or out. The Inside Jaw is held from sliding endwise by the Set Screws which must be screwed down tight on shaft to prevent the Jaws from sliding out of the Drum when clutch is disengaged.

The keyseat in the shaft for the Taper Key, which drives the Drum, should be a little longer than the Taper Key to facilitate fitting same. The length of this Taper Key is given in the table for each size Clutch and should be fitted and driven in from the inside of the Drum, The Bronze Bushing is then inserted. The two shafts about at the point shown.

Be sure that **each one** of the two shafts has **two collars** to be located on opposite ends of a rigid Drop Hanger or Bearing in order to keep the ends of the shafts in the Clutch from separating.

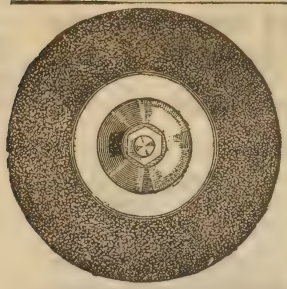
It is important that the two shafts should have collars where a Clutch Coupling is used, and that the Bearings should be rigid.

Supply the Bronze Bushing with plenty of grease.

MASTER'S FRICTION CLUTCH COUPLING.
Strictly Brand New.

MASTER'S FRICTION CLUTCH GUARANTEED TO TRANSMIT POWER SPECIFIED:

Size Clutch Inches.	H. P. at 100 R. P. M.	Largest Bore, Inches.	Outside Space on Shaft for Clutch Coupling. Equal to Shaft, Inches.	Dia. A, In.	B, Inches.	C, Inches,	Bronze Bushing, Inches.	Total Space, Inches.	Price, Each.
4	4	1 7/16	1 3/8	7¾	9½	3½	1	12¾	$12.00
5	6	1 7/16	1 7/16	8¾	10	3⅝	1 1/16	13⅝	16.75
6	8	2 7/16	1 11/16	9¾	10¾	4	1⅛	14¼	21.75
7	13	2 7/16	1 11/16	10¾	11⅛	4⅜	1 3/16	15¼	26.00
8	18	3 7/16	2 3/8	12¼	11¾	4⅝	1¼	16⅝	32.50
10	30	4 7/16	2 11/16	14⅜	13	5½	1⅜	18½	50.00
13	50	6	3 3/16	18⅝	14	6¼	1½	20¼	70.00
16	85	7 ½	3 11/16	22	14¾	7	1⅝	21¾	97.50
20	135	7 ½	4 1/16	26¼	15¼	7¾	1¾	23	123.00
24	200	10	4 1/16	31¼	17¾	8½	1⅞	26¼	166.00



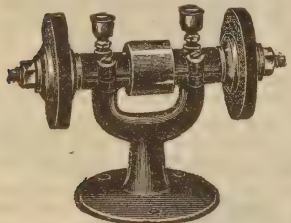
EMERY WHEELS.

We have on hand a complete stock brand New Emery Wheels, representative of the very best makes on the market, and each one fully guaranteed.

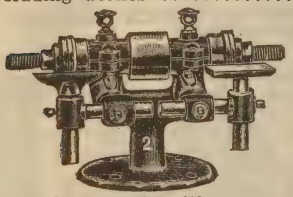
PRICES EACH.

Diameter in Inches	THICKNESS OF WHEELS IN INCHES																	
	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	4
1	$0.04	$0.04	$0.05	$0.06	$0.06	$0.06	$0.06	$0.07	$0.08	$0.08	$0.09	$0.10	$0.11	$0.12	$0.12	$0.13	$0.14	$0.15
1½	.05	.06	.06	.07	.07	.08	.08	.08	.09	.10	.11	.11	.12	.13	.14	.14	.15	.16
2	.05	.07	.08	.09	.09	.09	.09	.10	.11	.12	.12	.13	.14	.15	.15	.16	.17	.18
2½	.06	.08	.10	.11	.12	.12	.13	.15	.16	.17	.19	.20	.22	.24	.25	.27	.28	.31
3	.08	.10	.12	.14	.15	.16	.17	.19	.21	.24	.25	.28	.30	.33	.35	.37	.39	.44
3½	.09	.12	.15	.16	.16	.18	.21	.24	.27	.30	.33	.36	.39	.42	.45	.48	.51	.57
4	.12	.15	.17	.18	.20	.22	.24	.28	.31	.36	.39	.43	.46	.51	.54	.59	.61	.69
4½	.14	.17	.19	.21	.23	.25	.28	.33	.37	.42	.45	.51	.55	.60	.65	.70	.75	.82
5	.15	.18	.21	.24	.27	.30	.33	.39	.45	.51	.57	.63	.69	.75	.81	.87	.93	1.05
6	.21	.24	.26	.31	.36	.42	.46	.55	.65	.75	.85	.95	1.05	1.15	1.25	1.35	1.45	1.65
7	.28	.30	.32	.39	.45	.52	.58	.70	.84	.96	1.10	1.20	1.35	1.50	1.60	1.70	1.85	2.10
8	.31	.36	.39	.46	.54	.62	.70	.84	1.00	1.15	1.30	1.45	1.60	1.75	1.90	2.05	2.20	2.50
9	.38	.42	.46	.55	.63	.75	.80	1.00	1.15	1.30	1.50	1.65	1.85	2.00	2.20	2.35	2.55	2.90
10	.45	.50	.55	.65	.75	.85	.95	1.15	1.35	1.55	1.75	1.95	2.15	2.35	2.60	2.80	3.00	3.40
12	.54	.57	.60	.75	.90	1.00	1.10	1.35	1.65	1.90	2.10	2.35	2.60	2.85	3.10	3.40	3.65	4.10
14	.60	.75	.95	1.10	1.30	1.45	1.60	1.90	2.25	2.55	2.90	3.25	3.55	3.90	4.25	4.55	4.90	5.55
16	.....	.....	.....	.....	1.60	1.85	2.05	2.50	2.90	3.35	3.75	4.20	4.65	5.05	5.50	6.00	6.35	7.20
18	.....	.....	.....	.....	2.00	2.25	2.55	3.10	3.70	4.25	4.80	5.35	6.00	6.50	7.05	7.60	8.20	9.30
20	.....	.....	.....	.....	.....	.....	3.05	3.70	4.20	5.05	5.70	6.40	7.05	7.65	8.45	9.10	9.80	11.15
22	.....	.....	.....	.....	.....	.....	3.75	4.65	5.55	6.45	7.35	8.25	9.15	10.05	10.95	11.85	12.75	14.55
24	.....	.....	.....	.....	.....	.....	4.35	5.40	6.45	7.50	8.55	9.60	10.65	11.70	12.75	13.80	14.85	16.95
26	.....	.....	.....	.....	.....	.....	.....	6.45	7.65	8.85	10.05	11.25	12.45	13.65	14.85	16.05	17.25	19.65
30	.....	.....	.....	.....	.....	.....	.....	.....	9.15	10.80	12.45	14.10	15.75	17.40	19.05	20.70	22.35	25.65
36	.....	.....	.....	.....	.....	.....	.....	.....	14.25	16.55	18.90	21.25	23.60	25.90	28.25	30.55	32.85	37.50

BENCH EMERY GRINDER.

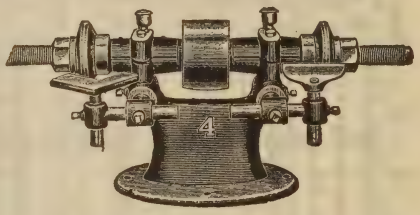


No. 1. This Machine will run 2 wheels 6 in. diameter, 1 in. thick. Has ⅝-in. steel spindle, ½ in. between flanges, pulley 2 in. diameter, 1 ⅝-in. face. Weight, 9 lbs. Price, not including stones **$2.10**



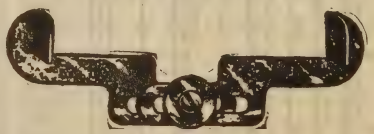
No. 2 Grinder. This Machine was run 2 wheels 10 in. diameter, 1½ in. thick. Has a Steel Spindle ⅞ in. in Bearings, ¾ in. between flanges. The bearings are 2 in. long, made with caps, and are adjustable. Mounted with brass oil cups, pulley, 2¼ in. in diameter, 1¾ in. face. Weight of grinder complete, 20 lbs.
Price, not including stones..... **$4.50**

No. 3 Emery Grinder. Will run 2 wheels 12 in. diameter, 2 in. thick. Has a steel spindle 18 in. long and 1⅛ in. diameter in bearings, 1 in. between flanges. The bearings are 3 in. long, and same style as engine lathe bearings, mounted with brass oil cups. Pulley, 2½ in. diameter, 2¼ in. face. Weight, 40 lbs.
Price, not including stones..... **$6.50**



No. 4 Emery Grinder. Will run 2 wheels 16 in. diameter, 2½ in. thick. Has steel spindle 1 5-16 in. diameter in bearings, 1½ in. between flanges. The bearings are 4 in. long and same style as engine lathe bearings. Mounted with brass oil cups, pulley 4½ in. diameter, 2¾ in. face. Weight, 65 lbs.
Price, not including stones **$8.75**

BICYCLE TOE CLAMPS.



Our Adjustable Safety Clamp is adjustable to any and all sizes of shoes, and hence can be worn by ladies as well as gentlemen. It will not bend or throw out of shape, as it rests against the pedal side and is made of heavy steel.
Price, per pair **$0.07**
Per dozen **0.70**

We have everything in Mill Supplies for sale.

LINK CHAIN BELTING.

For use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Straw Stackers, Feed Cutters, Traction Engines, etc.

When ordering chain for repairs, be sure and give number of chain—also lay one link on paper and mark around with pencil, showing size and shape of links.

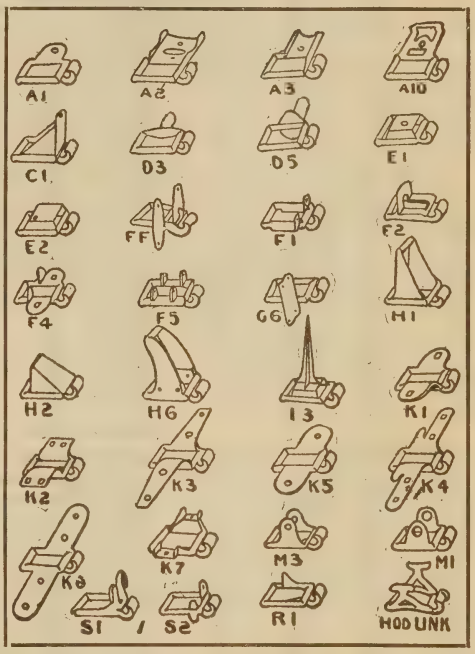
Number	Links per ft.	Working Strain	Approximate in Leather Belting.	Price per ft.
25	13.3	75 lbs.	1 in. Single	$0.06
32	10.4	150 lbs.	1½ in. Single	.06
33	8.6	200 lbs.	2 in. Single	.06
34	8.6	225 lbs.	2½ in. Single	.06
35	7.4	250 lbs.	2½ in. Single	.06
42	8.8	300 lbs.	3 in. Single	.07
45	7.4	350 lbs.	3½ in. Single	.07
51	10.4	375 lbs.	3½ in. Single	.10
52	8.	400 lbs.	4 in. Single	.10
55	7.4	450 lbs.	4 in. Single	.11
57	5.2	600 lbs.	6 in. Single	.11
62	7.3	650 lbs.	6½ in. Single	.12
66	6.	700 lbs.	6½ in. Single	.12
67	5.2	700 lbs.	7 in. Single	.12
75	4.6	750 lbs.	7½ in. Single	.13

Attachment Links for Chain Belting.

These Attachments Links are made to fit the sizes of chains as listed below, and must not be ordered except to match the sizes we state they will fit. For example, it will be noticed that the A 10 attachment is only made for Nos. 35 and 45 chain, and must not therefore be ordered to be used on any other size.

Chain No. 25	No. 32	No. 33.
A 3	A 1	A 1
C 1	A 3	D 3
D 3	C 1	E 1
E 1	D 3	K 1
H 2	E 1	K 3
K 1	K 1	K 5
K 5	K 3	K 6
K 6	K 6	M 1
M 1		S 1
S 1		

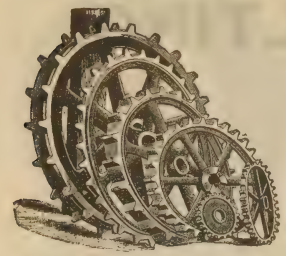
Chain No. 34	No. 35	No. 42
A 1	A 1	A 1
E 1	A 2	C 1
K 1	A 10	K 3
	C 1	K 5
	C 2	K 6
	K 1	S 1
	S 1	



Chain No. 45.	No. 51.	No. 52	No. 55	No. 57	No. 62	No. 66	No. 67	No. 75
A 1	A 1	A 1	A 1	A 1	A 1	C 1	A 1	E 1
A 3	K 1	A 3	A 2	D 5	A 3		D 5	H 1
A 10	K 5	D 3	C 1	E 1	C 1		E 1	K 1
C 1	S 1	E 1	E 1	F 2	D 5		FF	R 1
D 3		K 5	F 2	H 1	K 1		F 2	
D 5			K 1	K 1	K 5		H 1	
E 1			M 1	S 2			K 1	
K 1			S 1				S 2	
K 3								
K 5								
M 1								
S 1								

PRICE LIST.	Each.
Attachment Links for Nos. 25, 32, 33 and 34 chain	$0.03½
Attachment Links for Nos. 35, 42, 45 and 51 chain	.04½
Attachment Links for Nos. 52, 55, 57 and 62 chain	.05½
Attachment Links for Nos. 66, 67 and 75 chain	.07

We can furnish sprocket Wheels in all sizes. Prices on application. Be sure to give size of chain and diameter of sprocket desired.



Brand New Sprocket Wheels

In Ordering, Mention Size of Shafting

No. 25.

Dia., In.	No. of Teeth.	Price, each.
2	7	$0.67
2½	8	.70
3	10	.72
3½	12	.77
4	14	.80
4½	16	.84
5	17	.86
6	21	.95
7½	26	1.05
8	28	1.07
10	35	1.25
13¾	48	1.35
15	52	1.65
16	56	1.75

No. 32.

Dia., In.	No. of Teeth.	Price, each.
2½	6	$0.60
2¾	7	.65
3	8	.67
3½	9	.75
4¼	11	.84
4¾	13	.89
6	16	1.05
8¼	22	1.27
9	24	1.32
12	33	1.70
14	38	1.80
16	44	2.00

Nos. 33 & 34.

Dia., In.	No. of Teeth.	Price, each.
3	7	$0.85
4	9	.90
4½	10	.95
5½	12	1.00
6½	15	1.15
7	16	1.15
8½	19	1.30
9¾	22	1.45
12	27	1.60
14¼	32	1.80
15¼	34	1.95
16	36	2.00
18¼	41	2.20
24	54	3.00

Nos. 35, 45, 55.

Dia., In.	No. of Teeth.	Price, each.
2½	5	$0.87
3	6	.92
3½	7	.95
4½	8	1.05
4¾	9	1.13
5½	10	1.18
5¾	11	1.24
6	12	1.28
7	13	1.33
8½	16	1.50
9½	18	1.65
10	19	1.70
10½	20	1.78
11½	22	1.95
12	23	2.00
13	25	2.10
14½	27	2.20
16	31	$2.50
18¼	35	2.85
20½	39	3.00
21¾	42	3.50

No. 42.

Dia., In.	No. of Teeth.	Price, each.
3	7	$0.95
3¾	9	1.00
4¾	11	1.05
5¾	13	1.08
6½	14	1.10
8	18	1.17
9½	22	1.40
10½	24	1.50
11¾	27	1.70
14	32	1.87
15½	36	2.15
18	41	2.30
20	46	2.70
24	55	3.30

No. 51.

Dia., In.	No. of Teeth.	Price, each.
2½	7	$0.90
4	11	1.00
5	14	1.10
6½	17	1.20
8	22	1.35
10	27	1.50
12	33	1.70
14	39	1.95
16	45	2.25
18½	50	2.45

No. 52.

Dia., In.	No. of Teeth.	Price, each
2¾	6	$0.90
3½	7	.95
4	8	1.05
5	10	1.15
5½	12	1.25
6	13	1.30
6½	14	1.35
7	15	1.45
7½	16	1.50
8	17	1.55
9	19	1.65
10	21	1.75
12½	26	2.00
13	27	2.05
14½	30	2.15
16½	34	2.40
18	38	2.55
20	42	2.90
22	46	3.15
24½	51	3.50
26½	55	3.85
30¼	64	4.75

Nos. 57, 6.

Dia., In.	No. of Teeth.	Price, each.
4½	5	$1.05
5½	7	1.18
6	8	1.25
6¾	9	1.30
7½	10	1.32
8	11	1.65
9¾	13	1.85
11	15	1.95
11½	16	2.10
12½	17	$2.20
14	19	2.45
15½	21	2.65
16½	22	2.85
17	23	2.90
18½	25	3.20
20	28	3.56
22	30	3.75
24½	33	4.35

No. 62.

Dia., In.	No. of Teeth.	Price, each.
3½	6	$1.05
4½	8	1.10
5	9	1.30
5¾	11	1.40
7¼	14	1.55
8	15	1.70
9½	18	1.85
10½	20	2.05
12	23	2.75
14¾	28	3.25
18	30	3.60
20	38	4.40
24	45	5.00

No. 66.

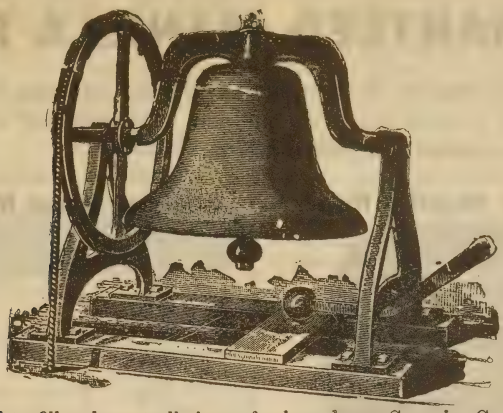
Dia., In.	No. of Teeth.	Price, each.
3	6	$1.05
5	8	1.10
7	11	1.25
7½	12	1.40
8½	13	1.45
10½	16	1.75
12½	19	1.90
16½	25	2.40

No. 75.

Dia., In.	No. of Teeth.	Price, each.
5	6	$1.60
6	7	1.70
6½	8	1.80
7½	9	1.90
8¼	10	2.05
9	11	2.20
10	12	2.40
11½	14	2.70
12½	15	2.90
14¼	17	3.30
16	19	3.70
16½	20	4.00
18½	22	4.50
20	24	4.95
21	25	5.00
22½	27	5.40
24	29	5.75
28½	34	6.75
30½	37	7.20

Send for Our Special Bargain Sheets and "Hardware News" which We Issue Regularly.

BRAND NEW CHURCH AND SCHOOL BELLS.



We are prepared to fill orders at all times, for brand new Superior Cast Steel Bells, for the church, college, school, court house, factory, plantation, farm, etc., etc.

These bells are cast from a specially selected quality of steel, entirely unlike that used ordinarily, and with the aid of the most approved appliances. We offer the highest grade bell of this class it is possible to produce, and one unequaled by the best product of any other founders. We guarantee this metal to possess every requisite for producing bells of full, rich, mellow tone and of the greatest durability, and purchasers may rest assured of a thoroughly satisfactory return for any money they may invest in these bells. The mountings are extra strong, handsome in design, and bring out the full volume of sound with the least labor in ringing. Every bell has been given a thorough ringing test, and only bells perfect in their performance are sent out. We fully warrant all of these bells to be as represented, and in sizes twenty-two inches and larger not to break within five years if rung and used in the proper manner. Should a bell fail within the time specified, we bind ourselves to furnish a new one free of charge, on delivery of the broken casting here. In case of a breakage after the term of our warranty has expired, we will allow for the broken bell (without mountings) one-half its price in exchange for a new one.

We claim: For an investment of the same amount of money we can give you in our superior cast-steel bell an instrument that will furnish a greater volume of agreeable sound, and whose voice can be heard much further, than the copper and tin bell that can be purchased at its price.

WHAT SIZE BELL TO BUY.

As a safe general rule we recommend the purchase of large bells, because of the vastly more agreeable tones obtained from large bells than are possible from small ones. This is especially the case with church bells, in which we rightly demand a solemnity of tone befitting its mission of calling men to worship, and not the sharp, business-like clang entirely appropriate to the school, factory or fire-engine house bell. For a village church, vastly more satisfactory results will be obtained from a bell larger than thirty-six inches than from one of smaller size. It should be remembered that with increased size comes greatly increased volume and sweetness of tone and that it is, therefore, practically impossible to install a bell too large for any church, increased size being inseparable from added sweetness.

PRICE LIST.

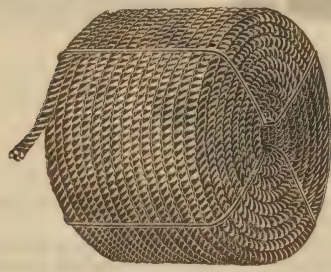
	DIAMETER.	WEIGHT OF BELL ONLY.	WEIGHT OF BELL AND MOUNTING.	PRICE, EACH.
School and Chapel Bells.	20-inch	110 lbs.	160 lbs.	$ 6.00
	22-inch	125 lbs.	200 lbs.	7.50
	24-inch	160 lbs.	250 lbs.	9.50
	26-inch	225 lbs.	350 lbs.	13.25
	28-inch	260 lbs.	425 lbs.	18.40
	30-inch, without Toller	330 lbs.	540 lbs.	22.00
Church Bells.	30-inch, with Toller	330 lbs.	560 lbs.	24.00
	32-inch, with Toller	390 lbs.	600 lbs.	30.00
	34-inch, with Toller	490 lbs.	750 lbs.	36.00
	36-inch, with Toller	590 lbs.	850 lbs.	45.00
	38-inch, with Toller	700 lbs.	1000 lbs.	50.00
	40-inch, with Toller	850 lbs.	1200 lbs.	60.00
	42-inch, with Toller	950 lbs.	1350 lbs.	65.00
	44-inch, with Toller	1075 lbs.	1550 lbs.	80.00
	46-inch, with Toller	1200 lbs.	1725 lbs.	90.00
	48-inch, with Toller	1450 lbs.	1950 lbs.	98.00

PRICES ARE GUARANTEED TO EVERYONE.

GUARANTEED MANILLA ROPE

Our stock of Manilla Rope consists of sizes ranging from ½-inch to 2 inches. It is all in good condition and can be purchased with perfect confidence, as we guarantee every rope sent out.

Brand New Manilla Rope



⅜-inch. Price per 100 feet. $0.55
½-inch. Price per 100 feet. 1.00
⅝-inch. Price per 100 feet. 1.75
¾-inch. Price per 100 feet. 2.50
⅞-inch. Price per 100 feet. 3.51
1 -inch. Price per 100 feet. 4.00
1¼-inch. Price per 100 feet. 5.25
1½-inch. Price per 100 feet. 6.75
1½-inch. Price per 100 feet. 8.00

Brand New Hawsers Laid Manilla Rope

For Well drilling. Best made.

Dia., ¾-inch. Price per foot $0.03
Dia., ⅞-inch. Price per foot ..... .04
Dia., 1 -inch. Price per foot ..... .05½
Dia., 1⅛-inch. Price per foot ..... .06½
Dia., 1¼-inch. Price per foot ..... .08
Dia., 1½-inch. Price per foot ..... .10

Second Hand Manilla Rope

Lot No. 14. 1⅛ in. 2nd hand Manilla.

2 pcs. 31 ft. ..... 4 pcs. 60ft
3 pcs. 35 ft. ..... 3 pcs. 70 ft.
1 pc. 40 ft. ..... 4 pcs. 70 ft.
2 pcs. 45 ft. ..... 1 pc. 100 ft.
5 pcs. 50 ft. Per 100 feet. $3.25

Lot No. 15. 1¼ in. 2nd hand Manilla.

5 pcs. 25 ft. ..... 5 pcs. 75 ft.
4 pcs. 30 ft. ..... 5 pcs. 75 ft.
6 pcs. 40 ft. ..... 3 pcs. 100 ft.
3 pcs. 50 ft. ..... 1 pc. 159 ft.
15 pcs. 60 ft. Per 100 feet. $4.00

Lot No. 15½. 1⅜ in. 2nd hand Manilla.

5 pcs. 25 ft. ..... 5 pcs. 60 ft.
4 pcs. 30 ft. ..... 2 pcs. 65 ft.
2 pcs. 35 ft. ..... 4 pcs. 70 ft.
3 pcs. 40 ft. ..... 6 pcs. 57 ft.
4 pcs. 45 ft. ..... 5 pcs. 80 ft.
2 pcs. 50 ft. Per 100 feet. $4.40
4 pcs. 85 ft. ..... 3 pcs. 110 ft.
11 pcs. 90 ft. ..... 1 pc. 120 ft.
14 pcs. 95 ft. ..... 2 pcs. 125 ft.
3 pcs. 100 ft. ..... 1 pc. 125 ft.
15 pcs. 105 ft. Per 100 feet. $4.40

Lot No. 16' 1½-in. 2nd hand Manilla.

1 pc. 30 ft. ..... 2 pcs. 75 ft.
2 pcs. 40 ft. ..... 6 pcs. 80 ft.
4 pcs. 45 ft. ..... 1 pc. 85 ft.
10 pcs. 50 ft. ..... 5 pcs. 90 ft.
4 pcs. 60 ft. ..... 3 pcs. 95 ft.
3 pcs. 70 ft. ..... 2 pcs. 100 ft.
Per 100 feet. $5.75

Second Hand Manilla Rope.

Lot No. 17. 1¾-in. 2nd hand Manilla.

1 pc. 21 ft. ..... 12 pcs. 60 ft.
1 pc. 20 ft. ..... 3 pcs. 65 f.
1 pc. 28 ft. ..... 4 pcs. 70 ft.
3 pcs. 30 ft. ..... 2 pcs. 75 ft.
2 pcs. 35 ft. ..... 9 pcs. 80f t.
3 pcs. 37 ft. ..... 4 pcs. 85 ft.
6 pcs. 60 ft. ..... 7 pcs. 90 ft.
1 pc. 45 ft. ..... 2 pcs. 100 ft.
10 pcs. 50 ft. ..... 1 pc. 120 ft.
1 pc. 55 ft. ..... 1 pc. 200 ft.
Per 100 feet. $7.00

Lot No. 18. 2-in. 2nd hand Manilla.

1 pc. 20 ft. ..... 3 pcs. 100 ft.
1 pc. 27 ft. ..... 2 pcs. 110 ft.
15 pcs. 30 ft. ..... 1 pc. 120 ft.
3 pcs. 35 ft. ..... 1 pc. 125 ft
16 pcs. 40 ft. ..... 5 pcs. 150 ft.
5 pcs. 45 ft. ..... 3 pcs. 175 ft.
32 pcs. 50 ft. ..... 2 pcs. 180 ft.
19 pcs. 60 ft. ..... 2 pcs. 190 ft.
9 pcs. 70 ft. ..... 3 pcs. 200 ft.
6 pcs. 75 ft. ..... 1 pc. 300 ft.
13 pcs. 80 ft. ..... 1 pc. 350 ft.
10 pcs. 90 ft. ..... 1 pc. 400 ft.
1 pc. 95 ft. Per 100 feet. $10.00

Lot No. 19. 2½-in. 2nd hand Manilla.

2 pcs. 25 ft. ..... 12 pcs. 80 ft.
10 pcs. 30 ft. ..... 4 pcs. 70 ft.
3 pcs. 35 ft. ..... 3 pcs. 75 ft.
14 pcs. 40 ft. ..... 4 pcs. 80 ft.
3 pcs. 45 ft. ..... 2 pcs. 85 ft.
9 pcs. 50 ft. ..... 3 pcs. 90 ft.
Per 100 feet. $11.00

Lot No. 20.

¾-in. new high grade, shop worn Sisal.

1 coil 150 lbs. ..... 1 pc. 275 ft.
1 coil 200 lbs. ..... 1 pc. 250 ft.
1 coil 125 lbs. ..... 1 pc. 150 ft.
1 coil 150 lbs. ..... 1 pc. 145 ft.
1 coil 175 lbs.
Price, coil lots. $0.09
Cut lengths. ..... .10

Lot No. 21. 3,000 ft. 2½-in. Pure Manilla Rope, all in one length. This lot is a special high grade rope and is in fine condition. Will furnish any length.
Price per foot. $0.11

Manilla Rope

Specifications.

Size, In. Diam., In.	Size in Circumference, In.	Appropriate Length in 1 pound
½	1½	13 ft.
¾	2¼	6 ft.
⅞	2¾	4 ft. 3 in.
1	3	3 ft. 6 in.
1⅛	3½	2 ft. 7 in.
1¼	3¾	2 ft. 3 in.
1⅜	4¼	1 ft. 8 in.
1½	4½	1 ft. 6 in.
1¾	5¼	1 ft.
1⅞	5¾	11 in.
2	6	10¼ in.

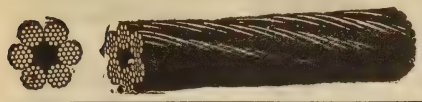
WIRE ROPE AND CABLE

We are listing below our lowest prices on new and second hand Wire Hoisting Rope. It is serviceable and adapted for mining, logging, elevators, derricks, hay presses and hoisting purposes of all kinds.

The second hand rope, which we are offering, is suitable for ordinary purposes. We do not guarantee it, but sell it with a proviso that if on receipt of same, you do not find it satisfactory you may return same, provided you pay freight charges.

Crucible Steel Wire Rope

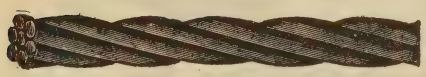
Nineteen wires to the strand. Six strands—laid around hemp center.



This rope is particularly adapted for service in mines, for logging, on elevators, derricks, hay presses and hoists of all kinds.

Diam. Inches	Weight per ft. in pounds	Approx. breaking strain of new rope in tons of 2,000 pounds	Proper working load of new rope in tons of 2,000 pounds	Price per foot brand new rope	Price per foot Selected Second Hand Rope.
1-4	0.10	2.4	0.48	$ 0.04½	$ 0.02½
3.8	0.22	5.0	1.00	.04¾	.03
1-2	0.39	8.8	1.76	.05½	.03½
5-8	0.62	13.6	2.72	.07	.04
3-4	0.89	19.4	3.88	.09½	.06
7-8	1.20	26.	5.20	.11½	.07
1	1.58	34.	6.80	.15	.08
1 1-8	2.45	42.	8.40	.19	.10

Galvanized Wire Strand.



This Strand is composed of seven steel wires twisted into a single strand.

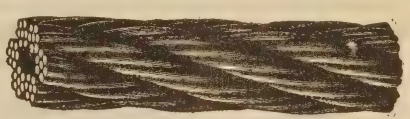
For Smoke Stack Guys, Electric Light Plants, Street Railways, Signal Cord, Fencing and Other Purposes

Approximate Diameter Inches.	Price per 100 feet.	
	New	Second Hand
1-4	$0.46	
3-8	.80	$0.50
1-2	1.30	.75

Galvanized Iron Wire Rope.

For Derrick Guys, Etc.

Not suitable to be run over drums or pulleys.



Composed of 6 strands and hemp center, 7 wires to the strand, hemp center.

Approx. Diam.	Approx. weight per foot.	Approx. Breaking Strain in tons.	New Price Per ft.	Second Hand Price Per ft.
1-2	0.36	3.2	0.03¾	0.02½
5-8	0.64	5.8	0.04¾	.03
3-4	0.81	7.3	.05½	.04½
7-8	1.21	11	.07¼	.04
1	1.44	13	.08½	.05

This is an approximate list of our overhauled or **Rebuilt Hoisting Wire Rope.** Each length is in guaranteed condition, and while we do not claim that it is absolutely as good as new, we have no hesitation in **thoroughly recommending it for all ordinary uses.** It is nicely oiled and in shape, ready for instant use. In addition to this list, we are usually **prepared** to fill orders for any **other size or length;** we are **also prepared to splice Wire Rope** to any desired length, and will guarantee that in doing this we will execute as nice a piece of work as ever you saw. We have our Wire Rope department in charge of a man **who has made the cable business a life-long study.** Prices per foot are as shown in list above.

Some Bargains in Second Hand Wire Cable

Item No. 1. 100,000 feet 1 5-16 inch Hoisting Steel Wire Cable, in excellent condition. This cable is in long lengths. Can provide any length you require. It was previously used on Chicago City Cable Company's System and was secured by us in connection with our outright purchase of the entire cable system.

Price per foot in ordinary quantities. **$0.10**

Special prices in large lots.

Item No. 2. 100,000 feet ⅝ inch Wire Rope, 6 strands, 19 wires to the strand. This Cable is in short lengths, anywhere from 50 feet to 150 feet, no longer lengths. We do not splice it, but sell it just as it comes in miscellaneous odd lengths. It is also suitable for logging, fencing and other purposes of that kind. Also for hoisting purposes. where a short rope will answer.

Price per foot. **$0.01½**

Item No. 2½ 50,000 feet 3-4 shoot lengths, same as Item No. 2. Price per foot **$0.02**

Item No. 3. 1⅛ inch Steel Cable, in good condition, suitable for further service. We have several pieces of it.

1 piece . . . . . 300 ft. long.
1 piece . . . . . 750 ft. long.
1 piece . . . . . 100 ft. long.
Price per foot. $0.07

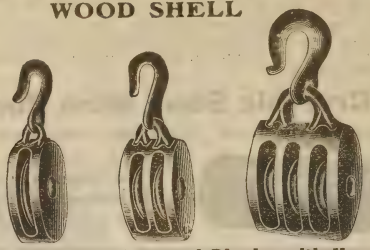
Item No. 4. 1 inch Steel Hoisting Cable, 4 strands, 19 wires to the strand.

1 piece . . . . . 500 ft. long.
1 piece . . . . . 300 ft. long.
1 piece . . . . . 175 ft. long.
Price **$0.06**

TACKLE BLOCKS

WOOD SHELL

See Our Prices on Rope and Cable They're Money Savers.



We Have Any Kind of Tackle Blocks You May Need.

Always on hand Brand New Iron Strapped Blocks with Harcourt's Patent Straps,

Lot No. 87. **Iron Sheaves and Loose Hooks. With or without becket at same price.**

Diameter of Rope, Inches.	Length of Shell Inches.	Single Pulley, Each.	Double Pulley, Each.	Triple Pulley, Each.
3-8	3	$9.18	$0.32	$0.40
1-2	4	.20	.39	.52
5-8	5	.21	.43	.55
3-4	6	.27	.47	.70
7-8	7	.30	.56	.83
1	8	.40	.67	1.00
1 1-8	10	.65	1.10	1.50
1 1-4	12	1.05	1.75	2.55
1 3-8	14	1.85	2.75	3.75
1 1-2	15	2.20	3.50	4.50

Lot No. 88. **STEEL TACKLE BLOCKS**

With Loose Hooks. Edges of Plates Rounded to Protect Ropes.

Length of Shell, Ins.	Diameter of Rope, Ins.	Single Pulley, Each.	Double Pulley, Each.	Triple Pulley, Each.
3	3/8	$0.18	$0.34	$0.45
4	1/2	.21	.44	.56
5	5/8	.24	.46	.60
6	3/4	.28	.53	.75
7	7/8	.35	.63	.90
8	1	.42	.75	1.05
10	1 1/8	1.10	1.80	2.50
12	1 1/4	1.75	2.95	4.20
12 Extra Heavy	1 1/2	3.30	5.50	8.00

Lot No. 89. SNATCH BLOCKS.

Size of Sheave, Inches.	For Diameter of Rope, Inches.	Length of Shell, Inches.	Price, Each.
3 x1 1/2 x 1/2	3/8	6	$1.60
3 1/2 x1 1/4 x 1/2	3/8	7	1.90
4 1/2 x1 3/8 x 5/8	1	8	2.30
5 x1 3/8 x 5/8	1 1/8	9	2.70
5 1/2 x1 3/8 x 3/4	1 1/4	10	3.40
6 1/4 x1 3/8 x 3/4	1 1/4	12	4.00

STEEL SNATCH BLOCKS

Lot No. 90. They are lighter than iron, and yet 30 per cent stronger and stiffer.

Size of Sheave, Inches.	Diam. Rope, Inches.	Length of Shell, Inches.	Price, Each.
3 x1 1/2 x 1/2	3/8	6	$2.50
3 1/2 x1 1/4 x 1/2	3/8	7	2.75
4 1/2 x1 3/8 x 5/8	1	8	3.50
5 x1 3/8 x 5/8	1 1/8	9	4.00
5 1/2 x1 3/8 x 3/4	1 1/4	10	4.50
6 1/4 x2 1/8 x 1/4	1 1/2	12	5.75

BLOCKS FOR WIRE ROPE

We usually furnish these Blocks with Stiff Swivel Hooks. But can furnish either kind.

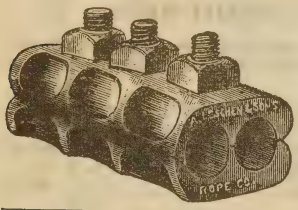
Diam. of Sheave, Inches.	Wire Rope Diam. Inches.	Single.	Iron Bushed D'uble.	Triple.	Single.	Self Lub. Bronze Bushed, Double.	Triple.
10	5/8	$ 5.50	$ 8.25	$11.00	$ 7.25	$11.55	$15.40
14	3/4	7.70	10.45	14.30	9.35	13.75	18.70
18	1 1/8	11.00	15.40	19.80	13.20	19.80	25.30

Fig. No. 069. Loose Hooks. Stiff Swivel Hooks. Fig. No. 970.

Clips, Sockets, Hooks and Sheaves

Wire Rope Clips No. 1
Brand New

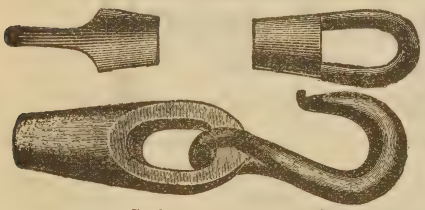
Sizes Inches	Price each
1/4	$0.08
5/16	.09
3/8	.12
7/16	.14
1/2	.18
5/8	.24
3/4	.28
1 1/4	.44



Wire Rope Clamp
No. 2.
Brand New

Size inches	Price each	Size inches	Price each
1/4	$0.20	3/4	$0.80
5/16	.25	7/8	.95
3/8	.30	1	1.30
1/2	.35	1 1/4	1.90

Wire Rope Sockets.

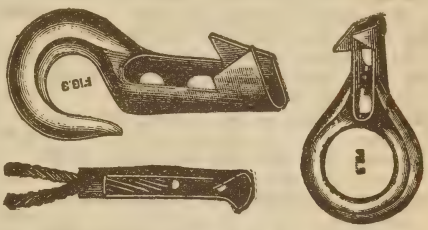


Socket with Hook.

For Diameter of Rope inches	Closed Socket Price each	Socket with Hooks Price each
5/8	$1.25	$2.00
3/4	1.60	2.60
7/8	1.80	3.00
1	2.25	4.00
1 1/4	3.50	5.50

Patent Wire Rope Hooks and Couplings.

These Hooks are made of Malleable Iron and can be bent cold. The cheapest and simplest fastenings for rope made.

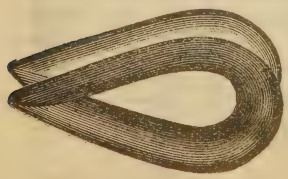


Size	3/8	1/2	5/8
No. 3	$0.12	$0.19	$0.46
No. 5	.12	.19	.46
No. 6	.12	.19	.46

Iron Sheaves for Wire Rope, Deep Grooves. Iron Bushed, Brand New.

NOTE: These sheaves as priced below are to run loose on the shaft. If you want sheaves fitted with **Set Screws** of **Key Seated** add one half to prices quoted.

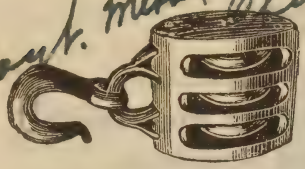
Size of Sheaves Inches	For Diam. Wire Rope Inches	Price each
4 x 3/4 x 1/2	3/8	$0.27
6 x 3/4 x 5/8	3/8	.42
6 x 1 x 5/8	1/2	.45
8 x 1 x 5/8	1/2	.75
8 x 1 1/2 x 5/8	1/2	.90
10 x 1 x 5/8	1/2	1.05
10 x 1 1/2 x 5/8	1/2	1.26
12 x 1 x 1	1/2	1.74
12 x 1 1/2 x 1	1/2	1.90
14 x 1 1/2 x 1	1/2	2.10
14 x 1 1/2 x 1 1/8	1/2	2.25
14 x 1 1/2 x 1	5/8	2.55
16 x 1 1/2 x 1 1/4	5/8	3.35
18 x 1 1/2 x 1 1/4	5/8	4.00
18 x 2 1/2 x 1 1/2	1	5.00



New Galvanized Wire Rope Thimbles.

Size inches	Price each
1/4	$0.05
3/8	.05
1/2	.07
5/8	.09
3/4	.10
7/8	.11
1	.15

Tackle Blocks, Rollers, Etc.



BLOCKS

Good Second Hand Ones.

All kinds coming in. Write us for anything you want.

No. 3119. One 12-in., iron, double block for cable up to 1 in., with bail and hook..... **$5.00**

No. 3300. One wire rope, single gin block, 12-in. sheave, will take $\frac{5}{8}$-in. rope..... **$5.00**

No. 3302. Two triple steel wire rope blocks, 14-in. sheave, will take $\frac{3}{4}$-in. rope. Each.. **9.00**

No. 3304. Two 12-in. triple steel tackle blocks, will take $1\frac{1}{2}$-in. rope..... **3.00**

No. 3305. Same as No. 3304, but with becket..... **3.25**

No. 3307. One steel wire rope block, 14-in. sheave, will take $\frac{3}{4}$ and $\frac{7}{8}$-in rope..... **9.00**

No. 3308. One triple wire rope block, 10-in. sheave..... **6.00**

No. 3379. One Yale & Towne 4-ton tackle block.....

No. 3380. One 4-ton, single hoisting block..

MAGNOLIA BABBITT METAL.

Comes in bars of about $3\frac{1}{2}$ pounds. Price, per pound..... **$0.26**

No. 1 BABBITT METAL.

Special grade, used on high speed engines, or any machinery where speed and durability are required. Price, per pound..... **$0.17**

No. 2 BABBITT METAL.

Desirable for separators, horse-powers, hangers, and bearings of all kinds. Price, per pound.. **$0.12**

SOLDER.

The very best half-and-half, comes in bars of about $1\frac{1}{2}$ pounds.
Price, per pound..... **$0.27**

HARD MAPLE ROLLERS.

Diameter.	Length, Brand new.	Price, each.
2 inches	24 inches	**$0.20**
3 inches	30 inches	**.40**
3 inches	48 inches	**.58**
4 inches	36 inches	**.58**
4 inches	48 inches	**.80**
5 inches	36 inches	**.80**
5 inches	48 inches	**1.05**
5 inches	60 inches	**1.30**
6 inches	36 inches	**1.05**

IRON PIPE ROLLERS.

Made of Tubing. Can furnish lengths from 2 feet to 12 feet.

Outside diameter.	Approximate Weight, per foot. Pounds.	Price, per foot.
2	2	**$0.07**
$2\frac{1}{2}$	$2\frac{1}{2}$	**.09**
3	$3\frac{1}{4}$	**.11**
$3\frac{1}{2}$	$4\frac{1}{2}$	**.12**
4	$5\frac{1}{2}$	**.14**
$4\frac{1}{2}$	$6\frac{3}{4}$	**.16**
5	$7\frac{3}{4}$	**.18**
6	$10\frac{1}{2}$	**.25**
8	15	**.50**

HEAVY TUBING.

Outside diameter.	Approximate weight per ft. pounds.	Price per foot.
2	$2\frac{3}{4}$	**$0.06**
$2\frac{1}{4}$	$3\frac{3}{4}$	**.08**
$2\frac{3}{4}$	$5\frac{1}{2}$	**.13**
$3\frac{1}{2}$	$7\frac{1}{2}$	**.18**
4	9	**.20**
$4\frac{1}{2}$	$10\frac{1}{2}$	**.25**
5	13	**.30**
$5\frac{1}{2}$	15	**.34**
$6\frac{1}{2}$	19	**.40**
$7\frac{1}{2}$	24	**.50**
$8\frac{1}{2}$	29	**.70**

JACK-SCREWS

We carry a complete stock of brand new jack-screws. In addition we often have on hand second-hand jacks of all kinds. Write for prices on anything not listed.

Our brand new jack-screws as listed below, are made with a cast iron stand. The screw is made of wrought iron, with a deep cut thread.

Diam. of Screw, Inches.	Height of Stand, Inches.	Height over all, Inches.	Lifting Capacity, Tons.	Price each.	Diam. of Screw, Inches.	Height of Stand, Inches.	Height over all, Inches.	Lifting Capacity, Tons.	Price each.
1¼	8	10¼	10	$0.95	2	14	17½	20	$2.35
1¼	10	12½	10	1.08	2	16	19½	20	2.63
1¼	12	14½	10	1.20	2	12	15¾	24	2.52
1½	8	10½	12	1.21	2¼	14	17¾	24	2.88
1½	10	12½	12	1.35	2¼	16	19¾	24	3.12
1½	12	14½	12	1.47	2¼	18	21¾	24	3.40
1¾	8	10¾	16	1.42	2¼	12	16	28	3.05
1¾	10	12¾	16	1.63	2½	14	18	28	3.40
1¾	11	14¾	16	1.78	2½	16	20	28	3.78
1¾	14	16¾	16	1.92	2½	18	22	28	4.10
2	10	13½	20	1.90	2½	20	24	28	4.45
2	12	15½	20	2.13					

Bell Base Ratchet Screws

Brand New.

Diam. of Screw. Inches.	Height Over All.	Lifting Capacity, Tons.	Price, Each.	Diam of Screw, Inches.	Height Over All.	Lifting Capacity, Tons.	Price, Each.
2	12	24	$5.35	2¼	12	28	$6.00
2	14	24	5.60	2¼	14	28	6.35
2	16	24	5.83	2¼	16	28	6.65
2	18	24	6.00	2¼	18	28	7.00
2	20	24	6.35	2¼	20	28	7.35
2	22	24	6.60	2¼	22	28	7.70

House Raising Jacks

Cast Iron--Brand New.

These Screws are cast with Seamless Threads, which makes them very smooth and uniform.

Diam. of Screw, Inches.	Height Over All. Inches.	Price each.	Diam. of Screw, Inches.	Height Over All, Inches.	Price each.
3	18	$1.55	3	28	$2.25
3	20	1.65	3	30	2.35
3	22	1.85	3	32	2.45
3	24	1.95	3	34	2.55
3	26	2.15	3	36	2.70

Jack Screws

A Bargain List.

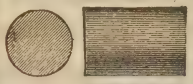
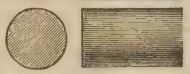
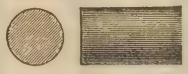
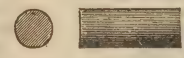
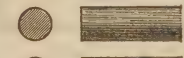
We have just purchased the following extra fine quality Jack-screws. They were used a short time. We have repaired them, wherever necessary, and guarantee them in absolutely perfect condition.

Item No.	Quantity.	Diam. of Screw, Inch.	Hgt. of Stand, Inch.	Hgt. Over All, Inch.	Lifting Cap'cy Ton.	Price, Each.
1	20	2½	20	24	28	$2.00
2	12	2½	24	28	28	2.50
3	10	3	20	24½	36	2.50
4	108	1¾	18	20¾	16	1.50

WIRE.

TABLE OF SIZES AND LENGTHS OF IRON AND STEEL WIRE.

We publish herewith cuts and specifications, so that anyone can decide quickly the size and gauge number of wire wanted.

No.	Full Size of the Wire.	Dec'ls of Inch.	Feet in a Pound.
000		.362	2.87
00		.331	3.44
0		.307	4.00
1		.283	4.71
2		.263	5.45
3		.244	6.333
4		.225	7.450
5		.207	8.810
6		.192	10.230
7		.177	12.047
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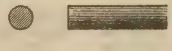
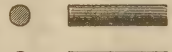
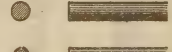
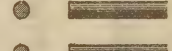
11		.120	26.174
12		.105	34.240
13		.092	44.640
14		.080	59.174
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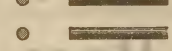
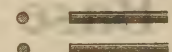
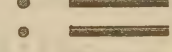
16		.063	95.23
17		.054	129.53
18		.047	170.94
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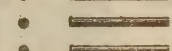
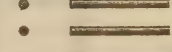
20		.035	308.66
21		.032	369.06
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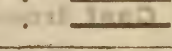
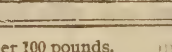
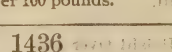
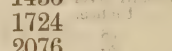
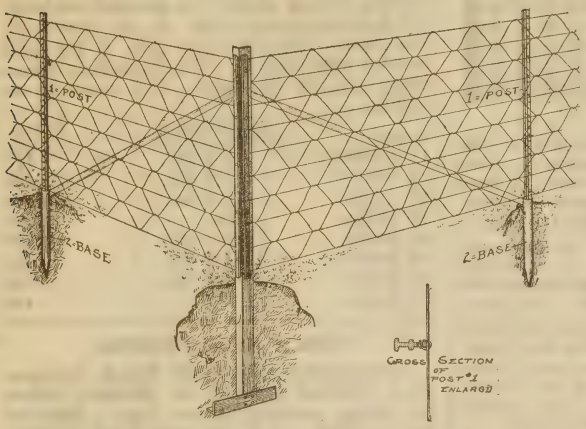
24		.023	714.28
25		.020	943.39
26		.018	1176.47
27		.017	1315.79
28		.016	1492.54
29		.015	1694.91
30		.014	1960.78

Gauge No.	Weight of 100 feet in pounds.	Feet per 100 pounds.	Weight of 1 mile in pounds.
8	6.96	1436	367
9	5.80	1724	306
10	4.83	2076	255
11	3.82	2617	202
12	2.92	3424	154
13	2.24	4464	118
14	1.69	5917	89
15	1.37	7299	72
16	1.05	9523	55
17	.772	12953	41
18	.585	17094	31
19	.445	22471	24
20	.324	30866	
21	.271	36900	

Note Our Low Prices on Staples. Better Order Now.

BRULEY STEEL FENCE POSTS



A FENCE POST THAT WILL LAST A LIFE-TIME. - - NO HOLES TO DIG - - MADE OF STEEL - - ROT, FIRE, AND LIGHTNING PROOF : : : :

The base being separate from the posts is one of the main features. It makes the post absolutely rigid, and being pointed, is easily driven.

All posts are heavily coated with black asphaltum before leaving the factory. Weight of post complete, ten pounds.

No Holes have to be dug for these posts. The pointed bases are driven with a few strokes of the sledge, thus a saving in cost of labor from five to ten cents is effected, according to the nature of the ground.

Wooden Posts Will Rot or Burn Out; Replace them with **Steel Which are Good for all Time.**

The base is first driven into the ground, then six inches of the post is inserted in it, and a handful of cement may be thrown in to fill up the top of the base and keep out water. There is a cap used while the base is being driven into the ground.

Any kind of fencing can be attached to the posts by means of clamps (see illustration), holes being drilled through the post for this purpose.

As this post is easily and quickly set, and can be taken out without difficulty, it is especially suitable for fencing hay and straw stacks, sheep pastures, and other purposes where a temporary fence is required.

Steel posts save your stock, as they are lightning conductors.

Fig. 1 is a post which is three feet and upwards above the ground, as may be required; it is made of special steel $1\frac{3}{8}$x$\frac{5}{8}$-inch.

Fig. 2 is the base made of wrought iron tubing, 24 inches long, one end pointed.

Corner and End Posts are made of heavy angle steel, $2\frac{1}{2}$x$2\frac{1}{2}$x3-16, and are supplied with strong steel braces. Any kind of woven or plain wire can be attached to these posts by means of a piece of steel which is fastened to the posts with bolts (see illustration). This adds greatly to their strength.

The posts are set in the ground three feet and an anchor arranged so that they remain rigid under the strain of the wire stretcher.

These post are the strongest and cheapest on the market, and are guaranteed to give entire satisfaction. The importance of reliable corner and end posts in making a serviceable fence cannot be overestimated. They should be well tamped and some cement should also be put in the hole.

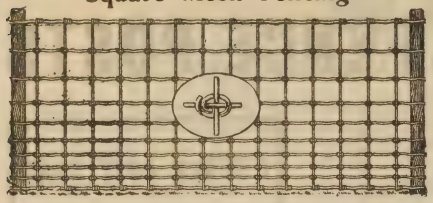
Gate Posts are made of heavy steel tubing, and are especially designed to bear the weight of the largest gate now in use.

Base under Ground.	Length of Post above Ground.			
	5 feet.	4½ feet.	4 feet.	3 feet.
24 inches.	42 cents.	41 cents.	40 cents.	38 cents.

	Price, each
Corner Posts with two braces	$2.50
End Posts with one brace	2.25
Gate Posts	3.00
Driving Caps	.10
Ornamental Tops	.15

Larger Bases or Posts Can Be Supplied At Porportionately Additional Prices.

Square Mesh Fencing



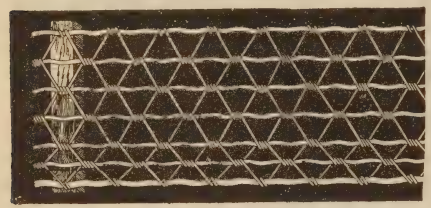
Item No.2. We have for sale several carloads of new heavy woven wire fencing. This is extra strong fencing and is made of hard galvanized wire. It is square mesh fencing. The stays are one foot apart. The top wire is No. 7, the bottom wire No. 9, the stays and intermediate wires are No. 11. It is known as a lock joint fencing. The tighter the stretch, the tighter the lock holds. It is neat, strong and durable and has no sharp points to injure stock. In this fencing the expansion and contraction of the horizontal wires has been perfectly covered. It is without question the strongest fence on the market. We can furnish this fencing as follows:

We have 1150 rods 7 bars 43 inches high with spacing as follows: 5, 6, 8 and 10 in. It weighs approximately 9 lbs. to the rod. Our price per yd.....36c

1500 rods 10 bars 46 inches high with spacing as follows: 3, 3 1-4, 3 3-4, 4 1-2, 5, 5 1-2, 6, 7 and 8 in. Weight, per rod, 11 1-2 lbs. Our price, per rod 40c

3500 rods 11 bars, 55 inches high with spacing as follows: 3, 3 1-4, 3 3-4, 4 1-2, 5, 5 1-2, 6, 7, 8 and 9 in. Weight per rod, 13 lbs. Price per rod.....49c

Graduate Diamond Mesh Fencing



Item No. 1. Brand new, heavily galvanized Diamond Mesh Fencing. It is the strongest and most durable fence made. Has all the flexibility of the square mesh with greatly added strength and durability. The margin wires are all No. 9, the intermediate No. 12 and the mesh wires No. 14 guage. It is small enough to turn any kind of animal and is strong enough to turn hogs, sheep or cattle. We can furnish same as follows.

Height.	Approximate weight per rod.	Price per rod.
18 inches	5 1-2 lbs.	18c
24 inches	6 1-2 lbs.	20c
30 inches	8 2-3 lbs.	27c
36 inches	9 lbs.	29c
42 inches	10 1-2 lbs.	33c
48 inches	11 1-4 lbs.	37c
54 inches	12 1-2 lbs.	39c
60 inches	14 lbs.	45c

Square Mesh Galvanized Fencing, Special Job

Item No. 3. We have a large quantity of square mesh, new galvanized woven wire fencing, strong enough for general purposes, which we are closing out at an extremely low price. This wire has No. 9 top and bottom wires and No. 12 intermediate wires. Stays are 10 in. apart. Our stock is as follows.

Height.	Approximate Weight per rod.	Price per rod.
18 inches	5 1-2 lbs.	17c
24 inches	6 1-2 lbs.	19c
30 inches	8 2-3 lbs.	26c
36 inches	9 lbs.	28c
42 inches	10 1-2 lbs.	32c
48 inches	11 1-4 lbs.	36c
54 inches	12 1-2 lbs.	38c
60 inches	14 lbs.	44c

2-INCH MESH FENCING

Extra heavy galvanized 2-inch Hexagon Mesh Fencing, suitable for chickens, rabbits or smaller animals of any kind. Made of No. 16 Wire. It is the same kind of Fencing as Poultry Fencing shown on Page No. 214 only much better quality than the average run of it. Put up 150 lineal feet to the bale. Our price is per bale of 150 feet as follows:

18 inches	Wide		$1.75
24	"	"	2.00
30	"	"	2.50
36	"	"	3.00

Also 100 bales made of No. 15 Wire, each bale 24 inches wide.

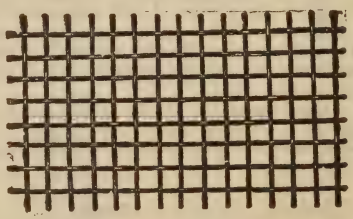
Price per bale 150 lineal feet.....$3.00

STEEL FENCE POSTS

We have on hand 2-inch Tubular Fence Posts, inside diameter 1¾ inch, approximate weight per foot 2 lbs. This material can be furnished in lengths from 2 feet to 10 feet. It is easy to drive in the ground and makes a lasting post. Price per lineal foot, 5 cents.

We can drill a 1-8 inch hole through these posts at 1½ cents per hole additional.

WIRE CLOTH



No. WF1. A thousand rolls for sale.

One inch mesh, made of No. 14 wire, painted black. About 4 feet wide, and lengths of about 15 to 25 feet in a roll.

Useful for fencing, wire guards, screening, etc., etc. It came from the World's Fair, St. Louis.

Price, per lineal feet.....$0.07

WIRE! WIRE! WIRE!

Galvanized Wire Shorts

This term is used to denote smooth, new wire secured by us under contract from the various wire mills. It is galvanized and extensively used for building fences and many other purposes. It is put up one gauge only in a bale, each containing 100 lbs.

Regular Galvanized Wire Shorts, lengths in a bale ranging anywhere from 45 to 250 feet.

Prices as Follows:

Gauges	Price 100 lbs.	Gauges	Price 100 lbs.
9	$1.50	15	$1.60
10	1.50	16	1.90
11	1.50	17	1.90
12	1.50	18	2.40
14	1.60	19	2.40

Painted Wire Shorts

The same general description applies to this grade as to the galvanized, the difference being that some of the galvanizing is imperfect, and the wire is therefore, painted.

It is in two grades.

Gauges	Price 100 lbs.	Gauges	Price 100 lbs.
9	$1.25	12	$1.25
10	1.25	14	1.25

Barbed Wire

Brand new, 2 point, made of No. 14 galvanized wire, barbs 3 inches apart, put up on reels containing 80 rods.

Price, per reel.....$2.00

Lawn Fencing

We always have on hand quantities of fancy wrought iron and cast iron fencing, suitable for lawns, cemeteries, etc. When in the market for articles of this kind, give us a memorandum of your requirements and we will give you our lowest prices and send you sketches of what we have on hand.

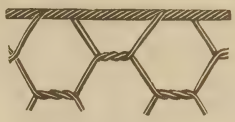
Telephone Wire

Full Lengths. Brand New.

We carry in stock high grade steel Telephone Wire, in full lengths, strictly first class in every way, at the following prices, per 100 pounds.

No. 10	$2.50
No. 11	2.65
No. 12	2.85
No. 14	3.10

Galvanized Steel Wire Netting



Strictly New Clean Stock. 150 Lineal Feet to the Bale.

Prices are per bale.

2-inch Mesh

Width Inches	Wire Number (Gauge.) 20	19	18	17	16	15	14
12	$0 60	$0 63	$0 93	$1 42	$1 54	$2 10	$2 75
18	90	1 06	1 40	1 98	2 31	3 03	4 12
24	1 20	1 43	1 77	2 64	3 08	4 18	5 50
30	1 50	1 79	2 34	3 30	3 85	5 22	6 87
36	1 80	2 14	2 80	3 95	4 62	6 27	8 25
42	2 20	2 50	3 27	4 62	5 40	7 31	9 62
48	2 60	2 86	3 75	5 28	6 16	8 36	11 00
54	2 90	3 22	4 21	5 94	6 93	9 40	12 37
60	3 25	3 57	4 67	6 60	7 70	10 45	13 75
66	3 63	3 95	5 14	7 26	8 47	11 50	15 10
72	3 75	4 29	5 60	7 91	9 24	12 50	16 50
78	4 29	4 65	6 08	8 58	10 00	13 55	18 87
84	4 62	5 00	6 54	9 24	10 78	14 63	19 25
90	4 95	5 36	7 01	9 90	11 55	15 67	20 62
96	5 28	5 75	7 48	10 56	12 32	16 70	22 00

1-inch Mesh

Width Inches	Wire Number (Gauge) 20	19	18
12	$1.60	$1.92	$2.20
18	2.39	2.89	3.30
24	3.19	3.85	4.40
30	3.99	4.81	5.50
36	4.78	5.77	6.60
42	5.58	6.74	7.70
48	6.38	7.70	8.80

Poultry Netting Staples

Put up regularly 100 lbs. to the keg; ¾ or ⅞ inches in length.

5, 10 and 25 lb. boxes, price per lb....$0.04½

Price per lb. in kegs, 100 lbs. or more. .03½

If You Need Anything Not Listed, Write Us.

NAILS, FENCING AND WIRE.

SPECIAL SALE.

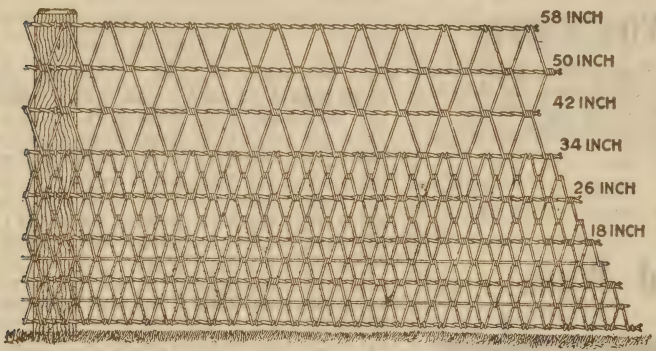
In connection with our marine operations we purchased the contents of a large barge containing some 15,000 tons of material that was damaged by fire in the harbor at Pittsburg, Penn., and which sunk with material on board. The barge was finally raised and the material unloaded and the goods are described in the exact condition in which they now are. Stock consisted of some 20,000 kegs of nails and 50 carloads of barbed wire, galvanized fencing and twisted fence wire.

Here is an opportunity to pick out a snap in staple merchandise and we advise that you act promptly. Our past experience has taught us that stocks of this kind disappear with rapidity and the time to take advantage is now when the opportunity exists. Don't wait until it is too late. Send us your order at once making your selection from this list and referring to it by mentioning Special List No. 253. This material has more or less the appearance of being smoked and some of it may be slightly rusted but there is no reason why it will not answer your every purpose.

GALVANIZED FENCE WIRE

The Fencing consists of two styles—the Ellwood, which is known as graduated diamond mesh fencing and the American fence which consists of square mesh fencing.

ELLWOOD FENCE



The Ellwood is one of the oldest and best known fences on the market, tested and highly recommended by thousands of farmers, ranch men, stock growers, etc. It is built strong, because the large cables are composed of 12½ gauge coiled steel strands and strong cross wires securely tieing the steel cables together at fixed distances.

Lot No. 1. STANDARD STYLE. 18 in. approximate weight, per rod 5.7 lbs. Price per rod..... 17c
26 in. approximate weight per rod, 7.8 lbs. at.....23c per rod.
50 in. " " " " 12.8 lbs. at.....37c " "

BARBED WIRE

Lot No. 4. Our stock consists of four point galvanized hog wire, two point galvanized hog wire and Baker galvanized hog wire. This wire may be more or less smoked and some of the reels may be scorched. It is put up on reels. Price per 100 lbs.....$2.45

Lot No. 5. Also includes two point painted hog and two point painted regular.
Price, per 100 lbs.....$2.25

Lot No. 6. Twisted cable painted wire, just the same as barbed wire, except it is without the barbs and is painted. Price, per 100 lbs.....$2.00

20,000 KEGS OF WIRE NAILS

20,000 kegs of wire nails secured in connection with this operation. It is split into various lots.

Lot No. 7. These are straight wire nails, put up regularly in kegs.

3D fine, per keg	$2.75
4D " " "	2.60
2D Common, per keg	2.95
3D " " "	2.70
5D " " "	2.65
6D " " "	2.45
8D " " "	2.35
10, 12 and 16D Common, per keg	2.30
20, 30, 40, 50 and 60 D Common, per keg	2.25
4D Casing, per keg	2.75
6D " " "	2.60
8D " " "	2.50
10, 16 and 20D Casing, per keg	2.40
4D Finishing, per keg	2.90
6D " " "	2.70
8D " " "	2.60
10D " " "	2.50

Lot No. 8. Nails practically clean, although they may be somewhat spotted from water and don't appear as bright as regular nails. They are practical for service, and we quote them as follows:
Wire nails, 3 to 20D. Price per keg.....$2.00
Casing and finishing nails in all sizes. Price per keg..... 2.30

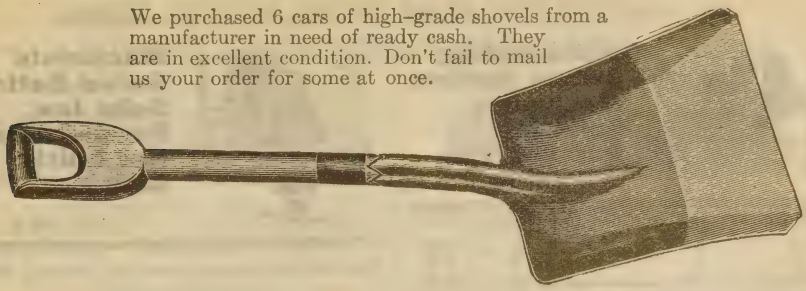
Lot No. 9. Embraces nails considerably rusted and are sold "as are."
We can furnish all sizes of common nails, per keg.....$1.75
Casing and finishing nails, per keg..... $1.90

Lot No. 10. Straight nails mixed all kinds together, more or less rusted, "as are."
Price per keg.....$1.60

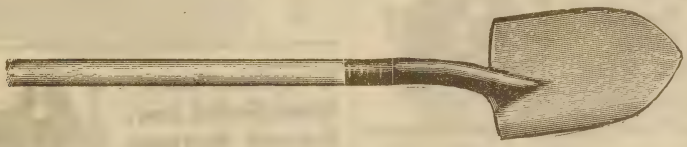
We will make a special concession on these prices when ordered in carload lots. Prices named are net spot cash, f. o. b. cars Chicago.

HIGH-GRADE SHOVELS.

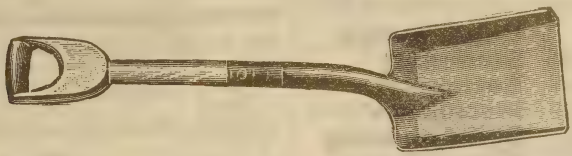
We purchased 6 cars of high-grade shovels from a manufacturer in need of ready cash. They are in excellent condition. Don't fail to mail us your order for some at once.



No. 614. "D" Handle Coal Shovels. Each, 30c. Per dozen..... $3.25

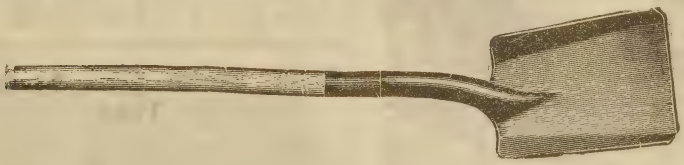


No. 615. Round Point Spades. Each, 30c. Per dozen..... $3.25

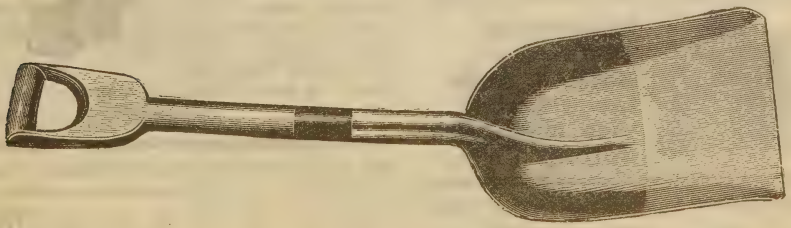


No. 616, "D" Handle Square Point Shovels. Each, 30c Per dozen..... $3.25
These Square Point, D-handled Shovels, No. 616, are all steel, one piece, including handle.

No. 619. "D" Handle Round Point Spades. Each, 30c. Per dozen..... $3.00



No. 618. Long Handle Spade, Square Point. Each, 30c. Per dozen..... $3.25

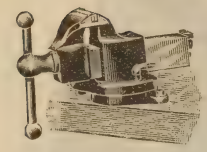


No. 617. "D" Handle Scoops. Each, 55c. Per dozen..... $5.50

We are Constantly Buying Stocks at Sheriffs' and Receivers' Sales.

BARGAINS IN MACHINISTS' BENCH VISES

Our prices on this lot are less than the cost of manufacture.



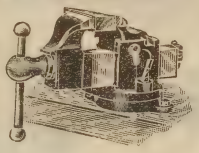
Quick Acting Swivel Bottom Machinists' Solid Jaw Parallel Vise

LOT NO. 1

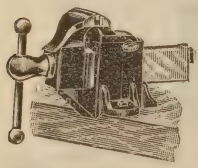
Size No.	Size Jaw, In.	Open, In.	Weight	Price
8	3½	5	32	$3.80
10	4	6	48	5.00
12	4½	7	60	6.00

Quick Acting Patent Swivel Bottom Self-Adjusting Vise

LOT NO. 2



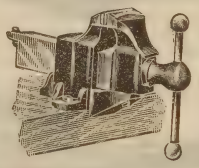
Size No.	Size Jaw, In.	Open, In.	Weight	Paice
24	3½	5	34	$4.00
26	4	6	54	5.00



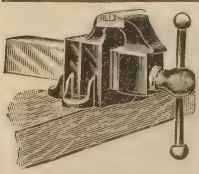
Quick Acting Stationary Bottom Machinists' Self-Adjusting Vise. LOT NO. 3

Size No.	Size Jaw, In.	Open, In.	Weight	Price
23	3½	5	30	$3.50
25	4	6	42	4.25
29	5	8	75	8.00
31	5½	9	106	9.00
33	6½	10	150	12.00

Quick Acting Machinists' Stationary Bottom, Solid Jaw, Parallel Vise. LOT NO. 4

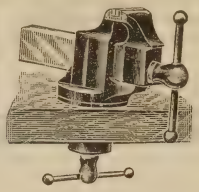


Size No.	Size Jaw, In.	Open, In.	Weight	Price
9	4	6	42	$3.85
13	5	8	68	7.00
15	5½	9	95	7.75
17	6½	10	123	10.50



Machinists' Stationary Bottom, Solid Jaw, Parallel Vise, Not Quick Acting. LOT NO. 5

Size No.	Size Jaw, In.	Open, In.	Weight	Price
49	6½	11	117	$10.50



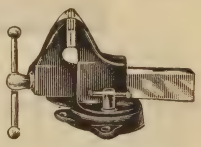
Machinists' Swivel Bottom, Solid Jaw, Parallel Vise, Not Quick Acting

LOT NO. 6

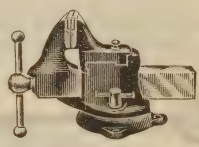
Size No	Size Jaw, In.	Open, In.	Weight	Price
38	3½	5½	31	$3.75
46	5½	9	93	7.25
48	6½	11	125	12.00

Woodworkers' Vise, Solid Jaw, Swivel Bottom

LOT NO. 7



Size No.	Size Jaw, In.	Open, In.	Weight	Price
155	4	7	52	$5.50
156	4½	11	66	6.75



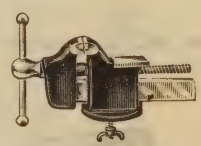
Woodworkers' Vise, Self-Adjusting Jaw, Swivel Bottom

LOT NO. 8

Size No.	Size Jaw, In.	Open, In.	Weight	Price
157	4	7	62	$7.00
158	4½	11	76	8.35

Steel Beam Vise, Stationary Type

This is a fine general purpose Vise for light work. Just the thing for shops where a vise is required for repair work. Very strong and finely finished. A good tool at a low price.



LOT NO. 9

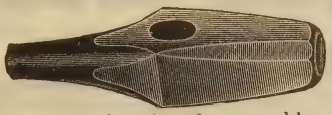
Size No.	Size Jaw, In.	Open, In.	Weight	Price
51	2½	3	11	$1.35
52	3	3½	13	1.60
53	3½	4	19	1.85
54	4	6	30	2.70

SLEDGES, HAMMERS, MAULS, ETC.

MADE OF BEST GRADE SOLID CAST STEEL. BOUGHT AT MANUFACTURERS' SALE.

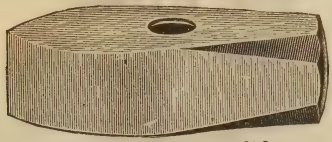
TRACK PUNCH.

No. 1. For punching rails. Made only of highest grade crucible tool steel, carefully tempered and tested. Weights, 3 to 5 pounds. Per lb.....$0.10



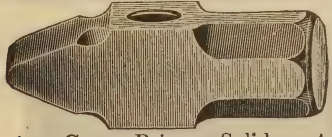
No. 2. Round point for punching rails. Same grade as above. Weights, 3 to 5 pounds. Per lb.....$0.10

STONE SLEDGES.



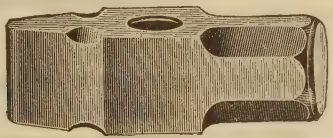
No. 3. Stone sledge. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09½
" 3 to 5 " " " 8
" 5 to 24 " " " 5½

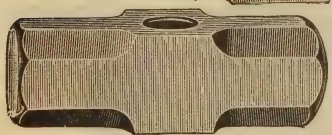
BLACKSMITHS' SLEDGES.



No. 4. Cross Pein. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09½
" 3 to 5 " " " 8
" 5 to 24 " " " 5½

No. 5.





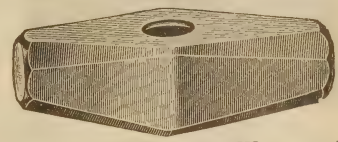
No. 5½.

No. 5. Straight pein. Solid cast steel.
" 5½. Double face. " " "
Weights under 3 pounds, per lb.....$0.09½
" 3 to 5 " " " 8
" 5 to 24 " " " 5½

NAPPING HAMMERS.

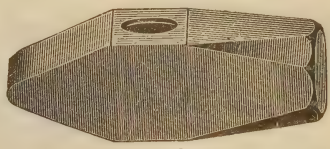
No. 6. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09
" 3 to 5 " " " 7½
" 5 to 24 " " " 5½

HAND DRILLING OR STONE CUTTERS' HAMMERS.



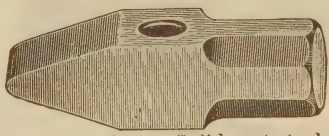
No. 7. Western Pattern. Warranted solid cast steel.
Weights under 3 pounds, per lb.....$0.10
" 3 to 5 " " " 9
" 5 to 24 " " " 7½

BLACKSMITHS' HAND HAMMERS.

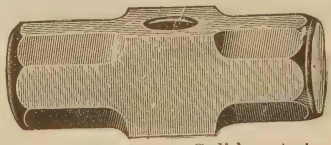


No. 8. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09
" 3 to 5 " " " 7½
" 5 to 24 " " " 5½

ENGINEERS' HAMMERS.



No. 9. Single face. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09
" 3 to 5 " " " 7½



No. 10. Double face. Solid cast steel.
Weights under 3 pounds, per lb.....$0.09
" 3 to 5 " " " 7½

SLEDGES, ETC.—Continued.

SPAULING OR STONE HAMMERS

No. 11.

Solid Cast Steel, Straight Face.

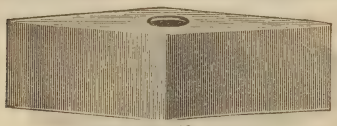
Under 3 lbs., per lb.....$0.10
3 to 5 lbs., " ..... .09
5 to 24 lbs., " ..... .07½

No. 12.

Solid Cast Steel, Double Face.

Under 3 lbs., per lb.....$0.10
3 to 5 lbs., " ..... .09
5 to 24 lbs., " ..... .07½

STONE AXE.



No. 13.

Warranted Crucible Tool Steel.

Up to 5 lbs., per lb.....$0.17

SORTING HAMMERS.

No. 14.

Solid Cast Steel.

Weights 1 to 3 lbs., per lb.....$0.12

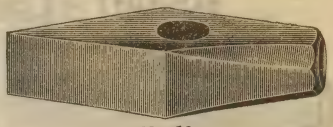
SHIP OR TOP MAUL.

No. 15.

Solid Cast Steel.

4 to 24 lbs., per lb.....$0.07½

WOOD CHOPPER'S MAULS.



No. 16.

Solid Cast Steel.

5 to 24 lbs., per lb.....$0.06½

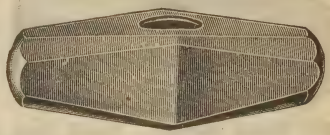
RAILROAD TRACK MAUL.

No. 17.

Solid Cast Steel.

5 to 24 lbs., per lb.....$0.05½

COAL SLEDGE.



No. 18.

Solid Cast Steel.

3 to 5 lbs., per lb.....$0.07½
5 to 24 lbs., " ..... .05½

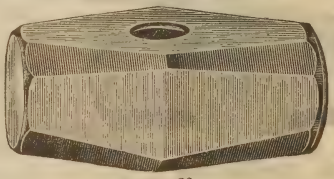
STONE WEDGE.

No. 19.

Solid Cast Steel.

1 to 2 lbs., per lb.....$0.05
2 to 12 lbs., " ..... .04

HORSE SHOER'S TURNING SLEDGE.



No. 20.

Solid Cast Steel.

5 to 24 lbs., per lb.....$0.05½

HANDLES FOR THE ABOVE ARE SHOWN ON PAGE 176

AX AND HAMMER HANDLES

CAREFUL SELECTION OF SECOND QUALITY HICKORY HANDLES

THESE PRICES ARE THE LOWEST

Post Maul Handles

Length.		Each.	1 doz.	6 doz.
36 inches	price,	6c	60c	$3.00

Sledge Handles

Length.		Each.	1 doz.	6 doz.
24 inches	price,	5c	45c	$2.20
26 "	"	5c	48c	2.35
28 "	"	5c	50c	2.60
30 "	"	5c	55c	2.85
32 "	"	6c	57c	3.00
34 "	"	6c	60c	3.10
36 "	"	6c	60c	3.10

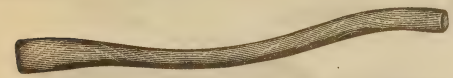
Single Bit Ax Handles

Length.		Each.	1 doz.	6 doz.
28 inches	price,	5c	50c	$2.60
36 "	"	7c	75c	4.00

Double Bitted Ax Handles

Length.		Each.	1 doz.	6 doz.
36 inches	price,	6c	60c	$3.10

Adze Handles



Length.		Each.	1 doz.	6 doz.
34 inches,	round....price,	6c	60c	$3.10
30 "	octagon .. "	5c	55c	2.85

Pick Handles

Length.		Each.	1 doz.	6 doz.
36 inches	price,	6c	60c	$3.10

Adze Eye Handles

Length.	Each.	1 doz.	6 doz.
13, 14 and 15 inches, price,	2c	18c	95c

Machine Handles

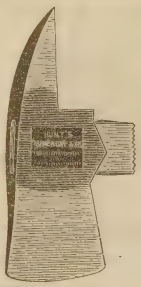
Length.	Each.	1 doz.	6 doz
12, 13 and 14 inches, price,	2c	18c	$0.95
16 and 18 inches.... "	2c	20c	1.00
20 and 22 inches .... "	2c	22c	1.15

Riveting Hammer Handles

Length.		Each.	1 doz.	6 doz
15 inches	price,	2c	18c	95c

Bench Hatchet Handles

Length.		Each.	1 doz.	6 doz,
16 inches	price,	2c	18c	95c



Firemens' Axes

Lot No. 014.

Best Cast Steel. Handled, Labeled, "W. J. Jones & Co". Assorted weights.

Price, each.....55c

Turpentine Axes

Lot No. 015.

Unhandled. Single Bit.

Nicely finished. Best cast steel. Put up one doz. to a case. Weight 3 lbs. Labeled "W. J. Jones & Co." Best cast steel.

Price, each.....30c.

Reversible Countersinks

Lot No. 167. 160 dozen Barber's No. 5 Reversible countersinks.

DIRECTIONS FOR USING—To reverse the cutter, press the lever A and revolve the cutter C through the opening in stock B, having the pin in lever A to drop into hole D. To replace a cutter press the lever A with a screw driver, spring the cutter from the rivets. Brand new and first class in every particular. Price per doz.....**$1.00**
Price per gross....**$10.00** Price each..... **.10**

Files, Rasps, Etc.

Mill File Bastard Cut, Square Edges.

F. E. 290.

Length	Each	Per doz.	Length	Each	Per doz.
4 in.	$0.06	$0.57	10 in.	$0.10	$1.06
5 "	.07	.61	12 "	.15	1.43
6 "	.08	.66	14 "	.20	2.03
8 "	.09	.80	16 "	.25	2.75

Flat Bastard Files.

F. E. 291. Flat Files, Bastard Cut.

Length	Each	Per doz.	Length	Each	Per doz.
4 in.	$0.07	$0.70	10 in.	$0.14	$1.33
5 "	.08	.75	12 "	.19	1.80
6 "	.09	.81	14 "	.26	2.40
8 "	.10	1.00	16 "	.34	3.38

Half Round Bastard Files.

F. E. 292. Half Round Files, Bastard Cut.

Length	Each	Per doz.	Length	Each	Per doz.
6 in.	$0.11	$1.14	10 in.	$0.19	$1.74
8 "	.16	1.42	12 "	.23	2.20

Round Bastard Files.

F. E. 293. Round Files, Bastard Cut.

Length	Each	Per doz.	Length	Each	Per doz.
4 in.	$0.06	$0.56	8 in.	$0.09	$0.81
5 "	.07	.62	10 "	.11	1.09
6 "	.08	.66	12 "	.16	1.45

Square Bastard Files.

F. E. 294. Square Files, Bastard Cut.

Length	Each	Per doz.	Length	Each	Per doz.
4 in.	$0.07	$0.72	8 in.	$0.10	$1.02
5 "	.08	.78	10 "	.14	1.38
6 "	.09	.85			

Taper Files.

F. E. 295. Taper or Saw Files, 3 square sides.

Length	Each	Per doz.	Length	Each	Per doz.
3 in.	$0.04	$0.40	6 in.	$0.07	$0.63
4 "	.05	.44	7 "	.08	.79
5 "	.06	.53	8 "	.10	1.08

Horse Rasps.

F. E. 296. Horse Rasps.

Horse Rasps, made of best file steel, properly tempered and fully warranted. Weight 18 to 42 ounces.

Size	Each	Per doz.	Size	Each	Per doz.
12 in.	$0.23	$2.40	16 in.	$0.42	$4.55
14 "	.31	3.35			

EXCELLENT CAST STEEL TOOLS.

Purchased at Receiver's Sale—Bailey's Tools made by the Sag Harbor Tool Co.

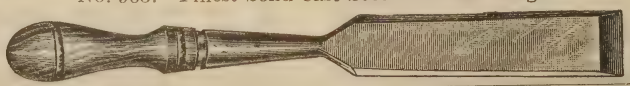
CARPENTERS SLICKS.

No. 902. Somewhat Rusty—Have High Grade Handles.

Two Sizes.
3 inch wide.....Each, 80c.....Per Dozen, $8.00
3½ " " ..... " 90c..... " " 9.00

SOCKET FIRMER CHISELS.

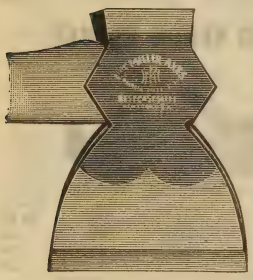
No. 903. Finest Solid Cast Steel—Beveled Edge.



Inches.....	⅛	¼	⅜	½	⅝	¾	⅞	1
Price Each....	40c	41c	42c	50c	54c	58c	60c	65c
Per Dozen.....	$4.00	$4.10	$4.20	$5.00	$5.40	$5.80	$6.00	$6.50

HIGH GRADE TOOLS.

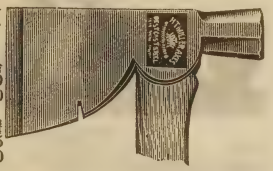
H. T. MILLER'S BROAD HATCHETS.



Made from best cast steel; finished in gold bronze.

No. 2.
Bit, inches.....4½
Price, each...$0.50
Per dozen.... 5.00
No. 4.
Bit, inches.....5½
Price, each...$0.65
Per dozen.... 6.50
No. 5.
Bit, inches..... 6
Price, each...$0.75
Per dozen.... 7.50

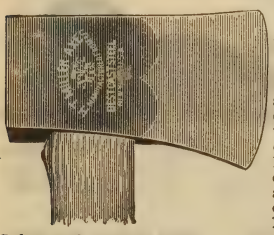
H. T. MILLER'S HALF HATCHETS.



Made from best cast steel; finished in gold bronze.

No .1.
Bit, inches.... 3½
Price, each...$0.30
Per Dozen.... 3.00
No. 2.
Bit, inches.... 3¾
Price, each...$0.35
Per dozen.... 3.50
No. 3.
Bit, inches..... 4
Price, each.....$0.40
Per dozen..... 4.00

H. T. MILLER'S No.0 HUNTERS' HATCHET.



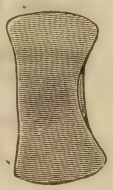
Weight, without handles, each, 1¼ pounds.

A useful tool around the house or farm as it takes the place of hatchet, hammer or ax. Made from best cast steel. Each ax properly handled with 12 inch handle.

Price, each.....$0.38
Per dozen..... 3.75

FINE STEEL AXES.

DOUBLE BITTED AXES.



We also have some double bitted axes in stock that are "second" quality. They are slightly rusted, but yet first class, being made of fine quality steel, same as the single bitted axes offered above, and are put up one dozen in a case, assorted weights, ranging from 3½ to 5½ lbs. They are all polished.

PRICE DOES NOT INCLUDE THE HANDLE.

Price each.....$0.55
Price, in lots of 3..... 1.50
Price, in lots of 6..... 2.75
Price, per dozen..... 5.00

"SPECIAL CAST STEEL" BRAND AXES.

These axes were purchased by us at a Receivers Sale. Each ax is painted a solid black color with a fancy gilt band, and is known as the "Special Cast Steel" ax. The bits are bright polished, as is also the poll. The material from which these axes is made is the best grade of crucible steel obtainable. The bits are hand tempered. They have extra sharp edge. They are put up assorted, one dozen in a case, that is, each case contains an assortment of designs such as Michigan, Dayton, Yankee, etc., round and square polls. The weights are assorted from 3 to 5½ lbs. Each ax is wrapped separately. Our prices on these axes are as follows.

PRICE DOES NOT INCLUDE THE HANDLE.

Price, each.....$0.55
Price, in lots of 3..... 1.50
Price, in lots of 6..... 2.75
Price, per dozen..... 5.00

SHINGLING HATCHETS.

No. 830. Shingling Hatchets. Extra cast steel. Packed 6 in a box.

No. 1.
Bit, inches.. 3½
Each $0.32
Per dozen.. 3.25
No. 2.
Bit, inches.....4 Each....$0.35 Per dozen.. 3.50

CLAW HATCHETS.

No. 833. Claw Hatchet. Extra cast steel. Packed 6 in a box.

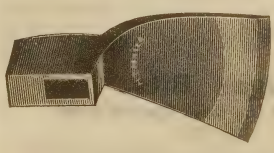
No. 1.
Bit, inches....3½
Each..... $0.30
Per dozen... 3.00
No. 2.
Bit, inches.....3½
Each.....$0.35
Per dozen.. 3.50
No. 3.
Bit, inches.. ...
Each.....$0.40
Per dozen .. 4.00

LATH HATCHETS.

No. 901. Made from best cast steel; finished in gold bronze.

No. 1.
Bit, inches.....2½
Each..... $0.40
Per dozen.... 4.00
No. 2.
Bit, inches.....2¾ Each ....$0.42 Per dozen. 4.25

ADZES.



We purchased from the manufacturers these high grade, handsome tools, finished in bronze, with polished bit. They are made of highest grade, extra cast steel.

No. 1. Carpenters' Pattern "H. T. Miller" Adzes.
Each.....$0.85
Per dozen..... 9.00
No. 2. Railroad Pattern "H. T. Miller" Adzes.
Each.....$0.85
Per dozen..... 9.00

THESE TOOLS ARE ABSOLUTELY WARRANTED.

LA GRIPPER WRENCH

3000 Purchased at Manufacturers' Sale.

To adjust the wrench from one size to another, spread the handle and draw the jaws open or push them shut, as you wish, and as soon as you let go of the handle the wrench will stay that size until it is adjusted again, To take hold of a pipe, nut or any object, open the wrench wide enough to allow the object to slip in between the jaws, then push the jaws up as close as you can, and grip the handles together. **This makes the jaws move 1-4 of an inch closer together,** and makes a firmer grip on the object. After turning the object let the handles open and the jaws instantly release their hold by moving apart. You will readily see

STYLE D.

Ten inch opens.....1 1-4 inches
Fourteen inch opens.....2 inches

This style is made only in 10 and 14 inch sizes, and is designed to any class of work for which a common monkey wrench is used, but it has the same adjustment and grip as all the **La Gripper Wrenches,** "B" except that it has square smooth jaws and is made of malleable iron. Each.

Ten inch.....40c
Fourteen inch.....50c

STYLE B.

This is the only wrench made that will turn a pipe standing against the wall, and it has the alligator jaw. It will turn a pipe or nut if you have but one inch space to move the handle, but in using any other wrench you must have three or four inches to move the handle before you get the grip on the object, as they all have a clamp grip. This style serves the purpose of a pipe wrench, tweezers, pinchers, hand vice, etc.

The six inch size opens one-half inch. Ten inch opens one inch. Fourteen inch opens one and one-half inch. The above furnished in smooth jaws for finished work if desired. Each.

Six inch.....60c
Ten inch.....70c
Fourteen inch.....80c

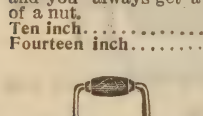
STYLE E.

10 inch opens one iuch
14 inch opens 1 1-4 inch

This style is made in **Ten and Fourteen inch only.** same as style "D" except that it has a slanting jaw, which is much better to use in close places, for you can grip a nut in any position and turn it.

This wrench like all La Gripper Wrenches **never slips off even if the corners of the nut are round,** and you always get a full turn of a nut. Each.

Ten inch.....40c
Fourteen inch.....50c

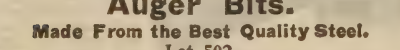


Ball Bearing Rachet BIT BRACE.

	Sweep in.	Price each.
Lot No. N500	10	$1.35
Lot No. N501	12	1.45

Auger Bits.

Made From the Best Quality Steel.
Lot 502.



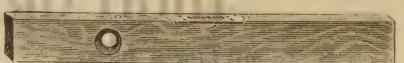
Size..	1/4	5-16	3/8	7-16	1/2	5/8	3/4	7/8	1
Each.	10c	11c	12c	14c	15c	17c	19c	23c	27c

Carpenter's Steel Square.

Lot No. 503 Blued finished steel. Size of body 24x2 inches. Length of tongue 16 inches.

Price each.....$0.95

Full Length Plumb Level.



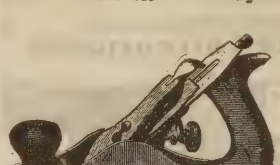
Lot No. N504 Proved glasses, highly finished. Length 26, 28 or 30 inches. Price each.....$1.00

BEECHWOOD BENCH PLANES.

No.	Length.	Width of Cutter.	Weight lbs.	Each.
N505	8" Smooth	1 3/4"	2 1/4	$0.60
N506	16" Jack	2"	4 1/2	.65
N507	22" Fore	2 1/4"	6 1/2	1.10
N508	26" Jointer	2 3/4"	9	1.20

IRON BENCH PLANES,

Either Smooth or Corrugated Bottom.



No.	Length.	Width of Cutter.	Weight lbs.	Each.
N509	9" Smooth	2"	3 1/2	$1.25
N510	14" Jack	2"	4 1/2	1.45
N511	18" Fore	2 3/8"	5 1/2	1.85
N512	21" Jointer	2 3/8"	6 1/2	2.15

IRON BLOCK PLANES.

No.	Length.	Width of Cutter.	Each.
N512	5 1/2"	1 1/2"	35c
N513	7 1/2"	1 3/4"	55c

DRAWING KNIFE.

Lot No. N514 Best tempered Steel.

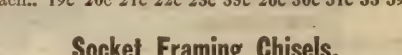
Size cut inches.....	7	8	10	12
Price each.....	39c	43c	47c	51c

Leather Tipped Socket Firmer Chisels.

Lot No. N515 Special oil tempered.

Size in.	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2
Each..	19c	20c	21c	22c	23c	35c	26c	30c	31c	33	39c

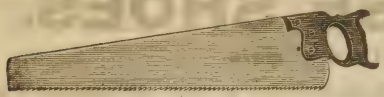
Socket Framing Chisels.



Lot No. 516 Special oil tempered bevel edge blade.

Size in.	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2
Each..	28c	30c	34c	37c	40c	43c	45c	48

Hand Saws.



No. 16 SAW.

Best Cast Steel, Spring Tempered, Beech Handles. Brand New. Perfect.

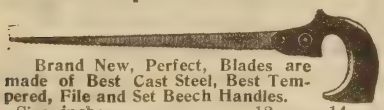
Length, inches.	16	18	20	26
Price, each	$0.25	$0.30	$0.35	$0.50
Per dozen	2.50	3.00	3.20	5.00

No. 17 SAWS.

Made from the Best Steel Spring and warranted; Curved Apple Handle, Polished; Improved Screws; Grained Blade.

Length, ins.	20	22	24	26	28
Price, each	$ 1.15	$ 1.25	$ 1.40	$ 1.45	$ 1.60
Per dozen	11.59	12.50	14.00	14.50	16.00

Compass Saws.



Brand New, Perfect, Blades are made of Best Cast Steel, Best Tempered, File and Set Beech Handles.

Size, inches.	12	14
Price, each	$0.12	$0.15
Per dozen	1 25	1.50

Hack Saws.

Brand New, Perfect, Steel Spring Frame, Nicke Plated, Enameled Handle, Extra Quality Saw, Each Saw Saw complete with Blade.

Size, inches.	8	10
Price, each	$0.15	$0.20
Per dozen	1.50	2.00

Westcott Saw Vice.

Lot No. 403 300 Westcott Saw Vises, Can be easily attached to a bench or a board by fastening thumb-screws shown in illustration. It is always ready for use. Holds saw firm without rattling. Light, strong and compact. The jaws open uniformly and are bought snugly up to the saw by means of a one-motion lever. Price each..$0.40

Eureka Truck and Bag Holder

Made of hardwood and strongly bolted; opens like an easel, permitting the bag to be filled while the truck is in upright position. Bagholder is adjustable, making it possible to fill bag of any size. Saves the labor of one man. This truck can be used for any purpose for which a warehouse truck is generally used, and for anyone who has bags to fill it will pay for itself many times over.

Size of handle—Width, 2 inches; length, 42 inches
Width of truck at nose—12 inches
Width of truck at handle—18 inches

Nose of truck and bag holders are made of the best malleable iron.

Weight, 20 pounds.

Price, each $3.00

Bag Holder Attachment can be readily removed from truck and used in bins, or elsewhere, while filling bags. This is a great feature and not contained in any other bag-holding truck.

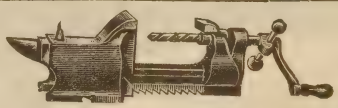
Combination Tools.

Useful Combination Tool.

No Farm or Workshop Should be Without This Article.

No. 0. This useful combination of tools is designed to meet all the requirements of **Farmers, Mechanics, Mills, Mines and Threshermen, in fact, it is useful in every home.** It consists of **Vice, Drill, Anvil, Cut-off or Hardie and Pipe Clamp.** Machine is quickly adjusted. **The jaws of the vise open 6 inches, width of jaws 3½ inches.** Jaws are faced with steel and polished. Top of Anvil is case-hardened. It is adjusted by raising the back of the Anvil, sliding it backward and forward, which engages the lug on the rack bar, making it perfectly rigid when in use. It is the best outfit over offered for the money. **With it you can mend all kinds of machinery, drill holes up to ½ inch, hammer or rivet on the Anvil, cut iron with the hardie or cut-off tool, hold pipe up to 1½ inch for cutting or threading with pipe clamp, file saws, sew harness, and hold small articles with the saw clamp,** and do many other handy and useful things with this machine. **It will save its cost in three months to any one in need of tools.** Is sold under an absolute guarantee for one year. No drills furnished. Weight about 50 lbs.

Price Complete **$3.25**



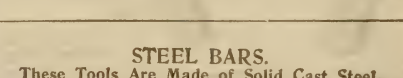
Combination Anvil, Vise and Drilling Machine.

No. 2. A mechanical wonder, six tools in one. The most useful tool made for Farmers and Mechanics. This combination of tools is made to meet all requirements of those who wish to do their own mending. It consists of **Vise, Drill, Anvil, Cut Off, or Hardie, and Pipe Clamp.** Six tools complete. This machine has no equal as a combination anvil, vise and drill. **The jaws of vise open 5 inches. The face of the jaws are 3 inches wide.** It is adjustable by raising the back of the anvil, sliding it backward and forward, which engages the lugs on the rack bar and makes it perfectly rigid when in use. The drill rod passes through the center of the screw, making a complete drill press. **The ordinary, square shank drill bits will fit this machine. Has polished jaws and case-hardened anvil.** Combination includes pipe clamp, holding pipe up to 2 inches. Weight 30 lbs.

Price Complete **$2.90**

STEEL BARS.

These Tools Are Made of Solid Cast Steel.



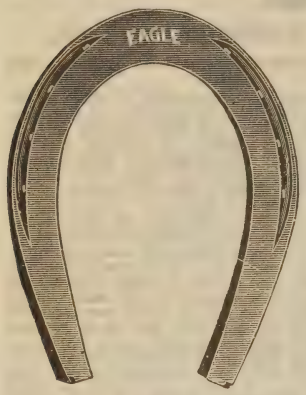
No. 26 Railroad claw bars. Wt. 30 lbs. Price $1.40

No. 27. Railroad claw bar with heel. Wt. 30 lbs. Price..... $1.40

EAGLE HORSE SHOES.

Bought at Manufacturers' Sale.

We purchased from the Trustee of the Eagle Horse Shoe Co., at South Milwaukee, Wis., their entire stock on hand of brand new strictly first quality, high grade horse shoes. This Company were the manufacturers of the most perfect horse shoes on the market. They had a reputation second to none. The shoes are put up 100 lbs. to the keg properly stenciled.



EXTRA LIGHT HORSE SHOES-Front

Quantity	Size	Weight ounces	Average No. of shoes in a keg.
21	0	11	150
29	1	13	123
68	2	15½	103
21	3	18½	87
123	4	22	73
98	5	25½	63
119	6	30	53
50	7	35	43

EXTRA LIGHT HORSE SHOES—HIND

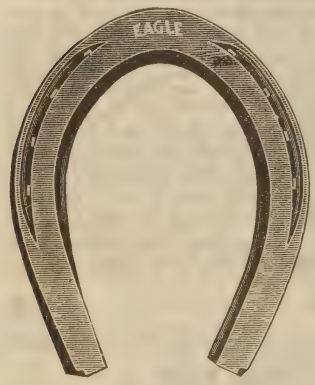
Quantity	Size	Weight ounces	Average No. of shoes in a keg.
34	0	9	175
3	3	16	100
81	4	19	84
137	5	23	70
51	6	27	59
24	7	31	48

LIGHT HORSE SHOES-Front

Quantity	Size	Weight ounces	Average No. of shoes in a keg.
38	1	14	114
65	5	30	52
79	7	41	39

LIGHT HORSE SHOES—HIND

Quantity	Size	Weight ounces	Average No. of shoes in a keg
45	3	18	88
49	4	22	73
11	5	27	59
18	6	31	51
72	7	34	47



SNOW HORSE SHOES

Front

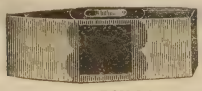
Quantity	Size	Weight ounces	Average No. of shoes in a keg.
49	2	14	114
5	3	18	89
4	4	22	76
30	5	25	64
53	6	28	57

PRICE PER KEG for any of the shoes described above. One hundred pounds to the keg.

In single keg lots $4.25
In larger quantities, ... $4.00

Mixed Eagle Horse Shoes.

One Thousand kegs of "Eagle" horse shoes, mixed, all kinds just as they come, fronts and hinds, and sizes ranging from 0 to 7, no guarantee as to assortment, price per keg, in single lots $3.25
In larger quantities, per keg $3.00



MASON HAMMERS.

Lot No. 30. Made by the Solid Steel Tool & Forge Company. Strictly firsts. Polished bits. Single face, has sharp edge.

SINGLE FACE.

Wt., lbs.	Quan.	Per lb.	Wt., lbs.	Quan.	Per lb.
3½	10	7c	7	26	6c
4	71	7c	8	79	5c
4½	44	7c	9	73	5c
5	61	6c	10	58	5c
5½	39	6c	11	7	5c
6	46	6c	12	49	5c
6½	74	6c	14	52	5c

DOUBLE FACE.

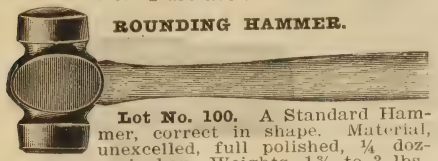
Wt., lbs.	Quan.	Per lb.	Wt., lbs.	Quan.	Per lb
4	65	7c	9	76	5c
4½	65	7c	10	84	5c
5	83	6c	11	2	5c
5½	41	6c	12	13	5c
6	104	6c	13	20	5c
6½	75	6c	14	50	5c
7	58	4c	20	4	5c
8	83	5c			

FARRIERS' CAST STEEL TOOLS.

HORSESHOERS' AND BLACKSMITHS' HIGH GRADE CAST STEEL TOOLS.

These goods are drop forged from solid steel bars, such as any mechanic would choose to make a tool for his own use. Manufactured by one of the oldest and most reliable steel manufacturers in the world. They are known as seconds on account of some slight irregularity, but for all practical purposes they are as good as the first-class grade. For confidential reasons these tools are not branded.

ROUNDING HAMMER.

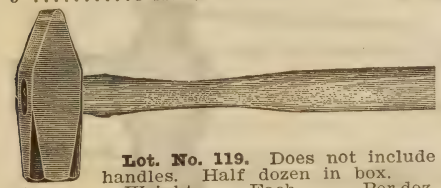


Lot No. 100. A Standard Hammer, correct in shape. Material, unexcelled, full polished, ¼ dozen in box. Weights, 1¾ to 3 lbs., with handles. Each.... .....50c
Per dozen **$5.75**

BLACKSMITHS' HAND HAMMERS.

Lot No. 118. Weight does not include handles. Half dozen in box.

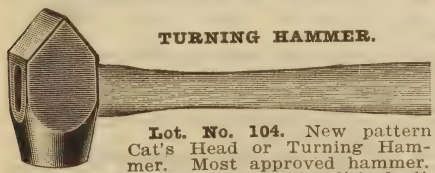
Size.	Weight.	Each.	Per doz.
0	1 lb.	25c	**$2.60**
1	2 lb.	30c	**2.80**
2	2 lb. 10 oz.	35c	**3.00**
3	3 lb.	40c	**3.20**
4	3 lb. 8 oz.	45c	**3.40**
5	4 lb. 8 oz.	50c	**3.80**



Lot. No. 119. Does not include handles. Half dozen in box.

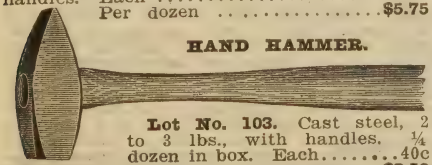
Size.	Weight.	Each.	Per doz.
0	1 lb. 2 oz.	20c	**$2.40**
1	1 lb. 10 oz.	25c	**2.60**
2	2 lb.	30c	**2.80**
3	2 lb. 8 oz.	35c	**3.00**
4	3 lb.	40c	**3.20**
5	3 lb. 8 oz.	45c	**3.40**
6	4 lb. 8 oz.	50c	**3.80**

TURNING HAMMER.



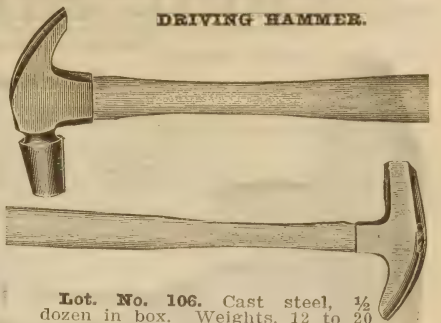
Lot. No. 104. New pattern Cat's Head or Turning Hammer. Most approved hammer. Solid crucible cast steel. Full polished. ¼ dozen in box. Weights, 2 to 3 lbs., with handles. Each 50c
Per dozen **$5.75**

HAND HAMMER.



Lot No. 103. Cast steel, 2 to 3 lbs., with handles. ¼ dozen in box. Each.....40c
Per dozen **$3.50**

DRIVING HAMMER.

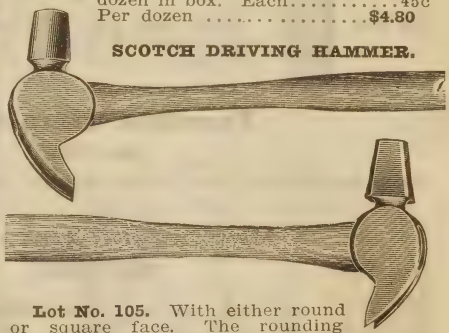


Lot. No. 106. Cast steel, ½ dozen in box. Weights, 12 to 20 ozs., with handles. Each.....35c
Per dozen **$3.00**
Lot No. 107. Each.....25c
Per dozen **$2.40**

FITTING HAMMERS.

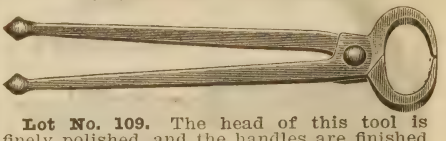
Lot No. 101. Cast steel. Weight, 2 to 3 lbs., with handles. ¼ dozen in box. Each.....45c
Per dozen **$4.80**

SCOTCH DRIVING HAMMER.



Lot No. 105. With either round or square face. The rounding claws will ring a nail very easily, also pull a nail without bending it. Weights, from 12 to 20 ozs. ½ dozen in box. Each....30c
Per dozen **$3.00**

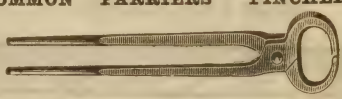
FARRIERS' PINCHERS.



Lot No. 109. The head of this tool is finely polished, and the handles are finished in oil. ¼ dozen in box.

	Each.	Per doz.
12-in.	40c	**$4.40**
Same, 14-in.	45c	**4.80**
Same, 16-in.	75c	**6.00**

COMMON "FARRIERS'" PINCHERS.



		Each.	Per doz.
Lot No. 110.	12-in.	35c	**$3.60**
	13-in.	45c	**3.85**
	14-in.	50c	**4.20**

We Carry a Full Line of Farriers' and Blacksmiths' Tools.

HIGH GRADE CAST STEEL HAMMERS

These tools are made of the very best selected tool steel and are polished. They are known as manufacturer's second selection, not strictly firsts. They are good enough for anyone. They have polished hardwood handles.

No. 896

Blacksmith's Hand Hammers

No. 896

Size	0	1	2	3	4	5
Weight, each	1 lb. 10 oz.	2 lb.	2 lb. 10 oz.	3 lb.	3 lb. 8 oz.	4 lb. 8 oz.
Price, each	$0.50	$0.55	$0.60	$0.65	$0.70	$0.75
Per dozen	5.20	5.60	6.00	6.40	6.80	7.60

No. 897

Engineers' Hammers

No. 897

Size	0	1	2	3	4	5	6
Weight, each	1 lb. 2 oz.	1 lb. 10 oz.	2 lb.	2 lb. 8 oz.	3 lb.	3 lb. 8 oz.	4 lb. 8 oz.
Price, each	$0.45	$0.50	$0.55	$0.60	$0.65	$0.70	$0.75
Per dozen	4.80	5.20	5.60	6.00	6.40	6.80	7.60

No. 898

Riveting Hammers

No. 898

Size	0	1	2	3	4	5	6	7
Weight, each	4 oz.	7 oz.	9 oz.	12 oz.	15 oz.	1 lb. 2 oz.	1 lb. 6 oz.	1 lb. 10 oz.
Price, each	$0.22	$0.23	$0.24	$0.25	$0.26	$0.28	$0.30	$0.32
Per dozen	2.20	2.30	2.40	2.50	2.60	2.80	3.00	3.20

Farriers' Hammers

No. 899

Weight approximately, 7 oz. Price, each.....$0.30 Per dozen.....$3.00

No. 900

Machinists' Hammers

No. 900 Ball Pin

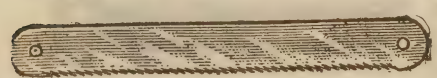
Size	000	00	0	1	2	3	4	5	6
Weight	8 oz.	10 oz.	1 lb.	1 lb. 4 oz.	1 lb. 8 oz.	1 lb. 12 oz.	2 lb.	2 lb. 4 oz.	2 lb. 8 oz.
Price ea.	$0.48	$0.48	$0.50	$0.54	$0.58	$0.62	$0.66	$0.70	$0.75
Per doz.	4.80	4.80	5.00	5.40	5.80	6.20	6.60	7.00	7.60

Nail Hammers

No. 901

Size	1	1½	2	3
Weight	1 lb. 4 oz.	1 lb. 13 oz.	7 oz.	
Each	$0.34	$0.32	$0.30	$0.20
Per doz.	3.40	3.20	3.00	2.80

HACK SAW BLADES.

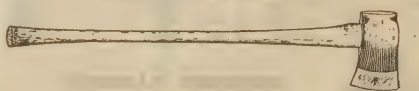


HACK SAW BLADES.

Lot No. 124. Highest quality "Springfield."

Length, inches.	8.	9.	10.	12.
Price, per gross	$3.25	$3.50	$3.75	$4.00

HANDLED AXES.

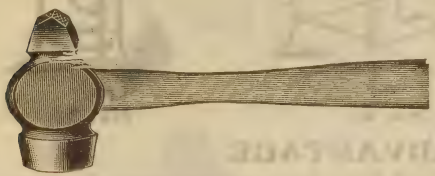


Lot No. 133.—150 dozen handled strictly first-class Axes, made of the highest grade oil tempered razor steel, black japanned and polished edge. We obtained them at a forced sale for a price that barely represents the cost of manufacture. In offering these axes, we make the claim that they are equal to any axe manufactured on earth. They were made by one of the largest manufacturers in the best equipped axe factory in the United States, where great care is used in the selection of material. The straight blade and blunt wedge shaped head is so formed that it will cut deeper without binding than any other axe on the market. The eye is oval shape and tapers towards the neck which prevents the handle coming loose. The handle is made from young growth of well seasoned hickory. Through a peculiar bend in the handle this axe always cuts in a slanting direction without the necessity of twisting the wrist. This is a point that will be greatly appreciated by lumbermen. Weighs 4½ lbs. Per dozen $5.50
In lots of 6 doz., per dozen..... 4.75

BLACKSMITHS' TOOLS

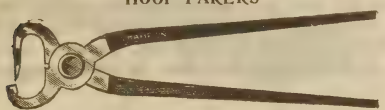
SHARPENING HAMMERS

No. 130. Electric Sharpening Hammer, single bevel pein, weights 2 to 3 lbs. with handles. ¼ dozen in box.
Per dozen.....$5.75
Each..... .50



No. 131. Electric Sharpening Hammer, double bevel pein, weights 2 to 3 lbs., with handles. ¼ dozen in box.
Per dozen.....$5.75
Each..... .50

HOOF PARERS



Lot No. 108. 14-inch. Per dozen.....$5.75
12-inch, per dozen.....$4.80
¼ dozen in box.
Each, 14 in.....$0.50 Each, 12 in.....$0.40

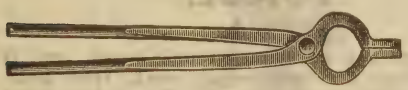
STEEL FORGING TONGS

Lot No. 111A. Length, 14 inches.
Price, each.....$0.21

STRAIGHT TIPPED TONGS

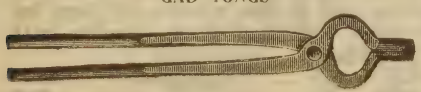
Lot No. 115A. Length, 20 inches. Price, Each.....$0.24
Lot No. 115B. Length, 22 inches. Price, Each.....$0.29

BOLT TONGS



Lot No. 117. For Bolts, ⅝—⅞ or ½-inch. Price in any one size.....$0.26
Lot No. 117B. For Bolts ⅝ or ¾-inch. Price, either size.....$0.38
Lot No. 118C. For Bolts ⅞ or 1 inch. Price, either size.....$0.45

GAD TONGS



Lot No. 116A. Length 18 inches. Price, each.....$0.25

CLINCH TONGS

Lot No. 130A. Used for turning clinch instead of using hammer—Useful on colts or nervous horses. Price, each.....$0.90

BELLOWS.

Made of thoroughly seasoned wood and the best quality leather. Fully Guaranteed.

Standard Pattern.

Width, inches.	Weight pounds.	Price.
24	30	$ 4.00
26	35	4.75
28	40	5.20
30	45	5.65
32	50	6.00
34	60	6.95
36	68	7.75
38	78	8.65
40	100	9.50
42	125	11.00

Extra Long Pattern.

Width, Inches.	Weight, pounds.	Price.
34	73	$ 8.35
36	87	9.20
38	105	10.51
40	125	12.25

BLACKSMITH VISES.

Wrought Iron Solid Box Lathe Cut Screws.

Diameter of screw, inches.	Length of jaw, inches.	Wt, lbs.	Price, Each.
1⅛	4¼	40	$ 4.80
1⅛	4¼	45	5.00
1⅛	4¼	50	5.25
1¼	4½	60	6.00
1¼	4½	65	6.50
1¼	4½	70	7.00
1½	5⅜	80	8.15
1½	5⅜	90	9.35
1½	5⅜	100	10.40
1⅝	6⅜	115	11.25
1⅝	6⅜	120	11.55
1⅝	6⅜	125	12.00
1¾	6¾	130	12.65
1¾	6¾	140	13.50
1¾	6¾	150	14.85

ANVILS.

Steel Face Cast Anvils.

The face is one piece of the best grade of tool steel that is used for this purpose and is welded on by patented process and properly tempered. The face and horn are warranted to be firmly welded to the body and will not separate.

Weight, pounds	20	30	40	50
Price	$2.65	$3.00	$3.60	$4.10
Weight, pounds	60	70	80	90
Price	$4.60	$5.30	$5.50	$6.85

Cast Anvils in weights of 100 pounds and heavier. Per pound.....$0.05

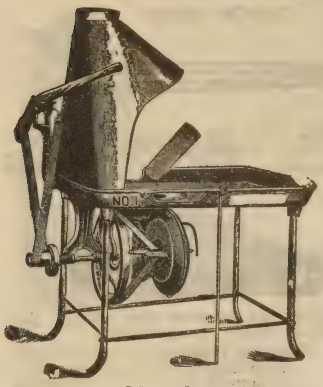
WROUGHT IRON ANVILS.

Best American Manufacture. Tool steel face welded to body and will not come loose. Guaranteed to give satisfaction.

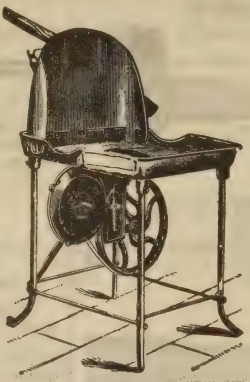
	Price per pound.
Weight, 50 to 74 pounds	$0.10
" 75 to 100 "	.08
" 200 pounds and over	.07

PORTABLE FORGES—Always on Hand

BRAND NEW from Factory, Economical, Durable, Cheap



No. 1.



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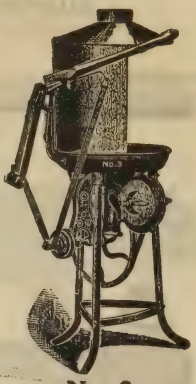


No. 3.

POINTS OF ADVANTAGE

First—These forges are strongly built and have fewer wearing parts than any other, hence are less liable to get out of order.

Second—The fan is bolted direct to the bottom of the hearth and fire pit, holding it firmly and avoiding long cast iron supports, liable to break in shipping.

Third—The fan is so located that a part of its body is above the opening to fire pit, and the ash pit is so arranged that cinders do not fall inside the fan case; and should anything get into the fan case the fan blades, by their first quarter turn, will carry it direct to the discharge opening, and unlike others, it does not have to carry it back and up over the top of the fan to get it out; hence this fan is never clogged or injured by cinders.

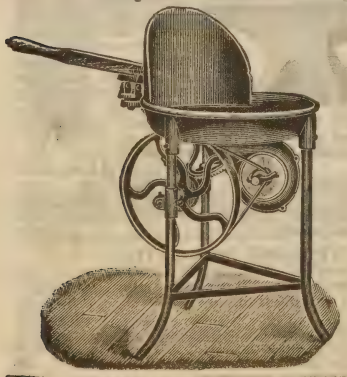
No. 1. For heavy smithing.

No. 2. This illustration shows our medium forge with a shield for outdoor work. It is also furnished with closed hood when ordered. This style is especially adapted for horseshoers and machinists.

No. 3. This illustration shows a shield. It is also furnished with open or closed hood when so ordered. Will weld a 1½ inch bar in about three minutes and also do much heavier work. It is just the tool for boiler makers, lock and gunsmiths, farmers and machine men, and is a practical forge for a great variety of work.

SIZES AND PRICES

	Height of Forge inches	Size of Hearth inches	Fan inches	Weight pounds	Price each
No. 3 with shield	30	18	9	130	$6.90
No. 3 with open hood	30	18	9	135	7.50
No. 3 with closed hood	30	18	9	145	8.00
No. 2 with shield	30	24x35½	12	215	11.50
No. 2 with open hood	30	24x35½	12	220	13.00
No. 1 with open hood	30	29½x46½	15	320	16.75



FORGE

No. 4.

This forge has an 18-inch round hearth, and is generally used for light repair work, rivet heating, and other similar work. Forge has lever motion, extra heavy pipe legs, stands 30-inches high, 8-inch fan.

K. ratchet never slips and a strong blast is obtained by a slow lever motion. The operating principle is the most positive device. Will produce a welding heat in five minutes, all parts are interchangeable. Weight of forge complete with shield, 70 pounds.

Price $4.75
Complete with hood 5.75

We will ship C. O. D. only when sufficient money is sent to cover freight charges.

Crank Forges, Tuyere Irons and Tire Shrinkers

PREMIER CRANK FORGE.

No. 5C.F.

Especially desirable for Contractors, Bridge Builders, Boilermakers, Mines, Quarries or general Farm Work. Capacity to heat 3½-inch iron Crank turns forward or backward. Hearth is made of steel 18-inch diameter. Fan 9 inches in diameter. Height 30 inches. Weight 85 pounds. Price.....$14.00

PREMIER COMBINATION CRANK FORGE.

No. 6C.F. For use of large Blacksmith, Wagon Shops or elsewhere where heavy forging is done. Capacity to heat 4-inch iron. Hearth 33x46 inches. Fan 12 inches. Height 30 ins. Length over all 53 inches.
Price with one tank (weight 295 pounds).....$22.00
Price with two tanks as shown in illustration (weight 325 pounds).....$23.50

PREMIER CRANK FORGE.

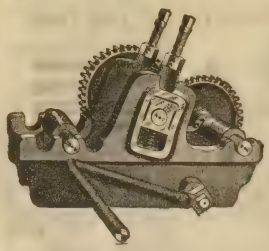
No. 7C.F. For Horseshoers, Small Blacksmith shop, Boiler makers and general repair work. Capacity to heat 3½-inch Iron. Hearth 23x34 ins. Fan 10 inches. Height 30 inches. Weight 185 pounds. Price.....$18.00

PREMIER CRANK BLOWER.

Built with Cut Gears, special Steel.

No. 8C.B.

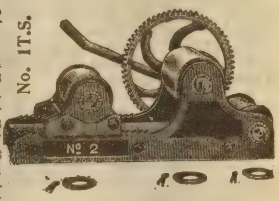
Shafts and bearings which relieve the friction. Which makes it possible to secure a blast of great volume with least labor. Gears run in oil and are enclosed in oil light and dust proof case. Diameter of fan 11½ inches. Weight 95 pounds. Price including piping and tuyere iron.....$11.00



TIRE BENDER. No. 1T.S.

This machine is double geared; has turned rolls and bearings; is very strong and durable and will bend 5-inch tire or smaller to a circle of 24 inches in diameter or larger. Price with one crank.....$ 7.25
Price with pulley for power..$11.00

NEW ROLLER BEARING TIRE BENDER.



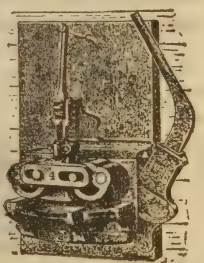
All journals in these machines are provided with steel roller bearings; which makes them very easy running. The Rolls are provided with steel roller bearings perfectly round and true which insures good work.
No. 2. Will bend 3½-inch tire, or smaller to a circle 24 inches in diameter or larger. Price with crank.....$5.60
No. 2½. Willbend 4½-inch tire,or smaller to a circle 24 inches in diameter or larger. Price with crank.....$6.10
No. 2½. Will bend 6-inch tires or smaller to a circle 24 inches in diameter or larger. Price with crank.....$6.75

IMPROVED MOLE TIRE SHRINKER.

Built of the Toughest Cast Iron.

Has special hardened steel pins and bolts.
An Iron Lever is furnished with each shrinker.
Size No. 1. Without Anti-Kinker. With 2½ inch bed. Shrinks tires up to 2 inches Weight, 100 lbs. Price.....$6.00
Size No. 2. With Anti-Kinker. With 3-inch bed. Shrinks tires up to 4 inches. Weight, 230 lbs. Price.....$9.50
Size No. 3. With Anti-Kinker. With 4-inch bed. Extra Heavy Shrinks tires upto 4 inches. Weight, 300 lbs. Price.....$11.60

STODDARD TIRE SHRINKER.



Can be operated by one man, has no anti-clinking devises. These are not required as the clamp head has a wide bearing which prevents light tires from kinking. The dogs that grip the tire are faced with tool steel plates and can be sharpened when necessary and replaced when wore out at small expense.
Size No. 1. Shrinks up to 2-inch tires. Weight, 100 lbs. Price.....$5.95
Size No. 2. Shrinks up to 4-inch tires. Weight, 230 lbs. Price...$10.00
Size No. 3. Extra Heavy. Shrinks tires up to 4-inch and has extra jaws of setting axles up to 1¾ inches. Weight, 300 lbs. Price.....$12.00

Blacksmith's Stocks, Dies and Screw Plates

BLACKSMITH'S STOCKS AND DIES

Price per set

No. 1555. Cuts $\frac{5}{16}$ inch to $\frac{1}{16}$ inch. Right Hand, 18, 24 and 32 threads to inch. 4 Taps and 3 sets of Dies..... $1.35

No. 1553. Cuts $\frac{5}{16}$ inch to $\frac{1}{16}$ inch. Right Hand, 16, 20, 24, and 32 threads to inch. 4 Taps and 4 sets of Dies..... $1.50

No. 1553A. Cuts $\frac{5}{16}$ inch to $\frac{1}{16}$ inch. Right Hand, 18, 20, 24 and 32 threads to inch. 4 Taps and 4 sets of Dies..... $1.50

No. 1542. Cut $\frac{1}{2}$ inch to $\frac{3}{16}$ inch. Right Hand, 14 and 20 threads to inch. Cuts $\frac{1}{2}$ inch to $\frac{1}{16}$ inch. Left Hand, 14 and 20 threads to inch. 6 Taps and 3 sets of Dies..... $1.90

No. 1541D. Cuts $\frac{1}{2}$ inch to $\frac{3}{16}$ inch. Right Hand, 12, 16 and 20 threads to inch. 6 Taps and 3 sets of Dies..... $1.80

No. 1541C. Cuts $\frac{1}{2}$ inch to $\frac{3}{16}$ inch. Right Hand, 12, 14 and 16 threads to inch. 6 Taps and 3 sets of Dies..... $1.80

No. 1541. Cuts $\frac{1}{2}$ inch to $\frac{1}{8}$ inch. Right Hand, 16, 20 and 26 threads to inch. 6 Taps and 3 sets of Dies..... 1.80

No. 1537C. Cuts $\frac{5}{8}$ inch to $\frac{1}{4}$ inch. Right Hand, 11, 12 and 16 threads to inch. 6 Taps and 3 sets of Dies..... $2.35

No. 1537A. Cuts $\frac{5}{8}$ inch to $\frac{3}{16}$ inch. Right Hand, 12, 14 and 16 threads to inch. 6 Taps and 3 sets of Dies..... 2.35

No. 1537. Cuts $\frac{5}{8}$ inch to $\frac{3}{16}$ inch. Right Hand, 14, 18 and 22 threads to inch. 6 Taps and 3 sets of Dies..... 2.35

No. 1534C. Cuts $\frac{3}{4}$ inch to $\frac{3}{8}$ inch. Right Hand, 10, 11 and 12 threads to inch. 3 Taps and 3 sets of Dies..... 2.50

No. 1534B. Cuts $\frac{3}{4}$ inch to $\frac{1}{16}$ inch. Right Hand, 12, 14 and 16 threads to inch. 3 Taps and 3 sets of Dies..... 2.50

No. 1534. Cuts $\frac{3}{4}$ inch to $\frac{1}{16}$ inch. Right Hand, 10, 12 and 16 threads to inch. 3 Taps and 3 sets of Dies..... 2.50

No. 1532B. Cuts $\frac{3}{8}$ inch to $\frac{1}{4}$ inch Right Hand, 10, 12, 14 and 16 threads to inch. 4 Taps and 4 sets of Dies..... 2.75

No. 1532A. Cuts $\frac{3}{8}$ inch to $\frac{5}{16}$ inch. Right Hand, 10, 11, 12 and 14 threads to inch. 4 Taps and 4 sets of Dies..... 2.75

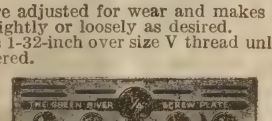
No. 1523A. Cuts 1 inch to $\frac{3}{8}$ inch. Right Hand, 8, 10 and 12 threads to inch. 3 Taps and 3 pairs of Dies..... 2.75

No. 1523. Cuts 1 inch to $\frac{3}{8}$ inch. Right Hand, 9, 10 and 14 threads to inch. 3 Taps and 3 sets of Dies..... 2.75

GREEN RIVER SCREW PLATES WITH ADJUSTABLE DIES

Dies are adjusted for wear and makes bolts and nuts fit tightly or loosely as desired.

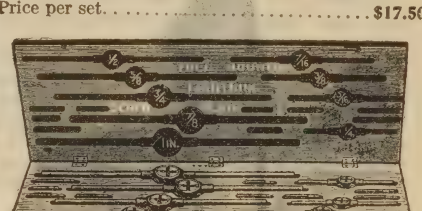
All sets 1-32-inch over size V thread unless otherwise ordered.



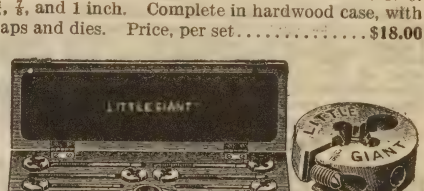
No. FN01. Cuts five sizes, $\frac{1}{4}$ to $\frac{3}{4}$-inch, as follows: $\frac{1}{4}$, $\frac{5}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$-inch. Complete with taps, dies, and guides, complete in hardwood case. Price..... $7.35

No. FN02. Brand new Green River Screw Plates, Stock 22 inches long. Cuts from $\frac{1}{4}$ to $\frac{3}{4}$ inch. Seven sizes, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch. Complete in case as shown with taps, dies and guide. Price, per set..... $9.00

No. FN05. $\frac{1}{4}$ to 1 inch. Stock 20 inches long. Nine sizes, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch. Complete in case shown, with taps, dies and guide. Price per set..... $17.50



No. FN06. New Lightning, full mounted, Screw Plates. A stock for every die. No changing necessary. Cuts nine sizes, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, and 1 inch. Complete in hardwood case, with taps and dies. Price, per set..... $18.00



Little Giant Split Die Screw Plates. Round Adjustable Dies, 13-16" diameter. Each set complete with an adjustable tap wrench. Neatly packed in velvet lined cases.

No. N5. Cutting 4-32, 6-32, 8-32, 10-24, 12-24. 5 dies, 5 taps, stock and adjustable tap wrench. Price, per set..... $3.00

No. N6. Cutting $\frac{1}{8}$-40, 5-32-32, 3-16-24, 7-32-24, $\frac{1}{4}$-26. 5 dies, 5 taps, stock and adjustable tap wrench. Price, per set..... $3.00

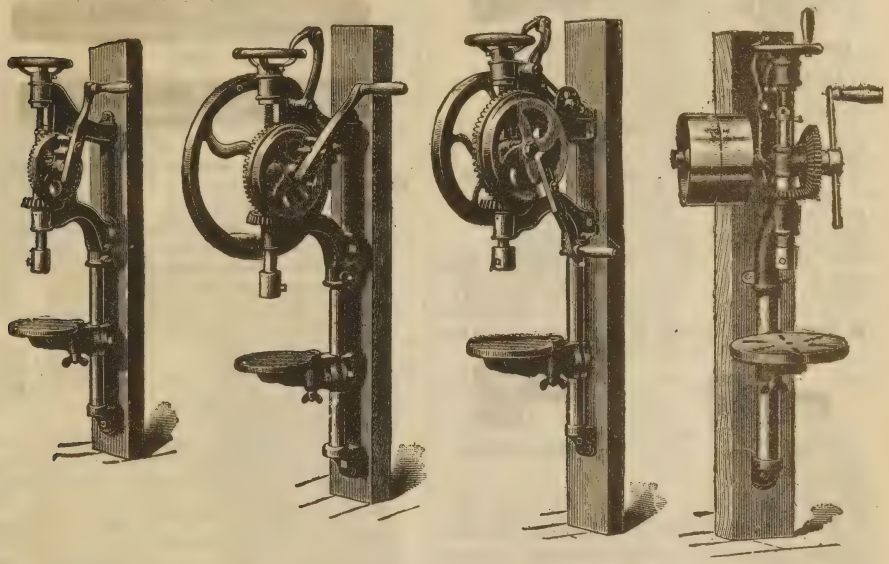
No. N7. Cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20. 6 dies, 6 taps, stock and adjustable tap wrench. Price, per set..... $3.45

No. N8. Cutting $\frac{1}{8}$-40, 5-32-32, 3-16-24, 7-32-24, $\frac{1}{4}$-20, 9-32-20. 6 dies, 6 taps, stock and adjustable wrench. Price, per set..... $3.50

No. N10. Cutting 2-56, 3-48, 4-36, 5-32, 6-32, 8-32, 10-24, 12-24, 14-20, 16-18. 10 Dies, 10 taps, Stock and adjustable tap wrench. Price, per set..... $5.30

NEW HAND POST DRILLS

No. 1½. No. 1. No. 2. No. 3.



These drills were manufactured by one of the largest and most reputable tool manufacturers in the country. They have long, heavy bearings, which are well babbited and cannot spring or get out of line, as is the case with some of the cheap drills now on the market. **The automatic feeding device is new and simple, yet efficient and positive.** It is located back of the spindle and is worked by a cam on inside of main gear wheel. This cam is constructed so as to give nearly a continuous feed. By this arrangement the drill does not jam into the work, as is frequently the case in the use of hand drills. This point alone makes a great saving in drill bits. Also the nice alignment of the lower column with the spindle, and the fact that the drill table is exactly at right angles with the spindle makes the drill turn free and easy, and the result is a saving of drill bits as well. We purchased these drills at a price which enables us to put them on the market at the following ridiculously low prices:

No. 1½. Weight, 74 pounds, drills ¾-inch to center of 12-inch circle. Spindle, 1 inch steel. Upright column and feed screw are of best steel. Price, each.....$4.85

No. 1. Weight, 96 pounds. Has extension crank and adjustable feed. Drills ¾-inch to center of 12-inch circle. Spindle, 1 inch steel. Upright column and feed screw are of best steel. Price, each. $5.80

No. 2. Weight, 114 pounds. Has extension crank and adjustable feed. Drills to 1 inch holes to center of 14½-inch circle. Upright column drill, spindle and feed screw are of best steel. Price, each. $6.95

No. 3. Weight, 140 pounds. Size of spindle, 1 inch; run of spindle, 3 inches; size of column, 1 9-16 inches; greatest distance of spindle to table, 14¼ inches; spindle turns 1½ times to one turn of crank on fast speed; crank turns 1½ times to one turn of spindle on slow speed; drills to center of 15-inch circle and up to 1¼-inch holes; spindle bored for ½-inch round shank drills unless otherwise ordered.

Tight and loose pulleys measures 8x2½ inches. They should be speeded about 250 revolutions, which will turn the spindle 170

No. 3 with tight and loose pulleys and crank, as shown in illustration, for either hand or power combined. Price.....$ 8.70

No. 3½ with tight and loose pulleys and fly wheel, for power only. Price, each..... 10.00

BRAND NEW DRILLS

½-inch Round Shank to fit Post Drill.

We will replace free of charge any defective drill sold by us.

1/16	1/16	1/8	3/16	1/16	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
.14	15	19	.22	.24	.26	.27	.29	.34	.37	.39	.39	.46	.57	.65		

WE CAN SUPPLY ANYTHING IN MACHINERY.

BLACKSMITHS' CAST STEEL BOTTOM SWAGE

Bottom Swage

Top Swage

Lot No. 131.

Size, inch	¼	⅜	½	¾
Weight, pounds	2¼	2½	2¾	2¾
Price, each	$0.27	$0.30	$0.30	$0.30
Size, inches	⅞	1	1¼	1½
Weight, pounds	2¾	2¾	3½	4
Price, each	$0.33	$0.33	$0.42	$0.48

BLACKSMITHS' CAST STEEL TOP SWAGE

Lot No. 132.

Size, inch	¼	⅜	½	¾
Weight, pounds	1½	2½	2½	3
Price, each	$0.18	$0.300	$0.30	$0.36
Size, inches	⅞	1	1¼	1½
Weight, pounds	3	3	3	4¼
Price, each	$0.36	$0.36	$0.36	$0.48

BLACKSMITHS' CAST STEEL TOP FULLER.

Top Fuller

Bottom Fuller

Lot No. 133.

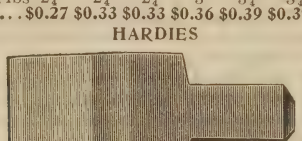
Size, inch	⅜	½	⅝	¾	1	1¼	1½
Weight, lbs	2½	2¾	2¾	3½	3¾	4	4¼
Price	$0.30	$0.33	$0.35	$0.42	$0.42	$0.47	$0.51

BLACKSMITHS' CAST STEEL BOTTOM FULLER.

Lot No. 134

Size, inch	⅜	½	⅝	¾	1	1¼	1½
Weight, lbs	2¼	2¾	2¾	3	3¼	3½	3½
Price	$0.27	$0.33	$0.33	$0.36	$0.39	$0.39	$0.42

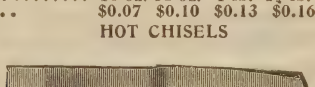
HARDIES



Lot No. 135.

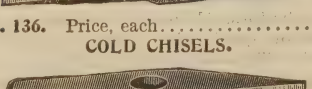
Size, inch	½	⅝	¾	⅞	1
Weight	10 oz.	12 oz.	1 lb.	1¼ lb.	1⅝ lb.
Price	$0.07	$0.10	$0.13	$0.16	$0.18

HOT CHISELS



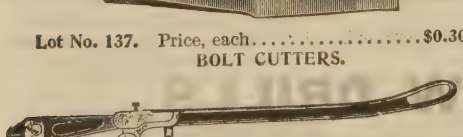
Lot No. 136. Price, each.....$0.28

COLD CHISELS.



Lot No. 137. Price, each.....$0.30

BOLT CUTTERS.



		Price
No. 01.	Cuts bolts 5-16 or less	$1.50
No. 11.	Cuts bolts ⅜ or less	1.95
No. 21.	Cuts bolts ½ or less	2.75
No. 31.	Cuts bolts ⅝ or less	3.95

Blacksmiths' Plug and Taper Taps

TAPER.

PLUG.

Always give Lot number, and size number of threads when ordering.

Made of Best Tool Steel.

Lot No. N10. Right Hand Taper Tap.

Lot No. N11. Left Hand Taper Tap.

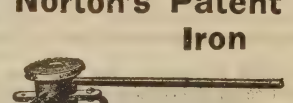
Lot No. F12. Right Hand plug Tap.

Lot No. F13. Left Hand Plug Tap.

NUMBER OF THREADS TO INCH.

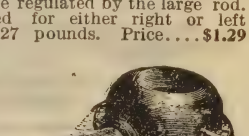
Size inches.	RIGHT.	Left.	Price Each
1-8	30 and 32.		$0.12
3-16	24, 26, 28, 30 and 32.		.12
1-4	16, 18, 20, 22, 24, 26, 28, 30 and 32.		.12
5-16	14, 16, 18, 20, 22, 24, 26, 28, 30 and 32.		.12
3-8	12, 14, 16, 18, 20 and 24.		.14
7-16	12, 14, 16, 18, 20 and 24.	14	.16
1-2	10, 12, 13, 14, 16, 18, 20 and 24.	12, 14, 20 and 24.	.16
9-16	10, 12 and 14.	12.	.20
5-8	10, 11, 12, and 14.	10 and 12	.20
3-4	7, 8, 9, 10 and 12.	10 and 12	.25
7-8	8, 9 and 10.	9	.35
1	7, 8, 9 and 10.	8 and 9	.50
1 1-4	6, 7, 8 and 9.	8 and 9	.70
1 1-2	6, 7 and 8.	6, 7, and 8.	1.20

Norton's Patent Tuyere Iron



Cinders and ashes may be removed by pulling the small rod which opens the slide, blast can be regulated by the large rod. Levers can be changed for either right or left hand use. Weight 27 pounds. Price....**$1.29**

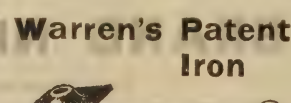
CLARK'S PATENT TUYERE.



Made with ball valves dump and shaker.

No. 1.	Weight about 18 pounds			$0.90
No. 2.	"	"	"	1.10
No. 3.	"	21 "	"	1.25
No. 4.	"	26 "	"	1.80
	"	45 "	"	

Warren's Patent Tuyere Iron

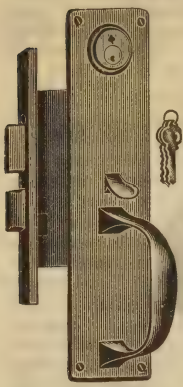


Very simple and easily adjusted. The blast is regulated by revolving the ball, which has three unequal sides.

Open the bottom valve and all cinders and ashes drop out. Weight about 31 lbs. Price.....**$1.50**

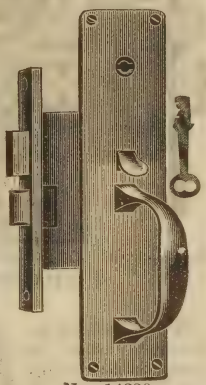
BUILDERS' HARDWARE

STORE DOOR LOCKS.



No. 18751. Genuine wrought Bronze Metal in Antique Copper Finish. Set comprises one mortise cylinder store door lock, size 5″x3½″ flat front, bronze bolt with 5 pin tumbler cylinder, 3 German silver keys. Size plates 12″x3″. Reversible for right of left hand. Packed complete with screws. **Price per set .$6.50**

No. 18751.

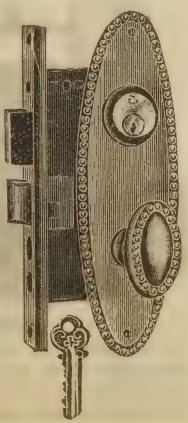


No. 14230. Wrought Steel Plated in Antique Copper Finish. Set consists of 1 mortise store door lock 4¾″x3¼″, 2 flat steel keys 2 handles and plates. Size of plates 12″x3″. Reversible for either rightt or left hand. Packed complete with screws.
Per set.....$1.95

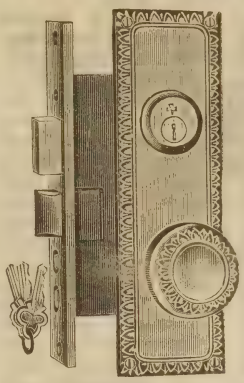
No. 14230.

STORE DOOR LOCKS.

No. 14285. Bronze Plated Store Door Handles and Lock with black back ground, polished raised surface. Set comprised of 1 mortise store door lock 4¾″x3½″, 2 flat steel keys, 2 handles and plates. Size of plates 13″x2¾″. Reversible for right or left hand. Packed complete with screws.
Price per set.....$1.65



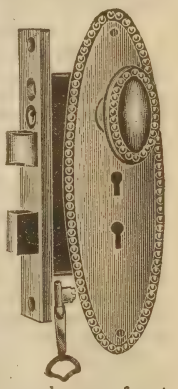
No. 11132. Lock Set. Antique Copper Finish. Genuine Wrought Bronze. Set comprises cylinder lock 5½″x4″, 5 pin tumbler cylinder, 3 German silver keys size of escutcheon 9¼″x2¾″. Knob 2½″. Reversible for either right or left hand door. Packed complete with screws.
Price ber set.....$5.75



CYLINDER FRONT DOOR SETS.

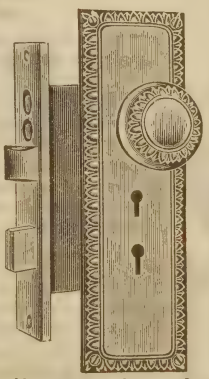
No. 11015. Lock Sets. Antique Copper Finish Genuine Wrought Bronze. Set comprises a heavy Bronze Front Mortise Cylinder Lock 5½″x4″, 5 pin tumbler cylinder, 3 German silver keys, size of escutheon 3″ x 10″, knobs 2⅝″. Reversible, right or left hand door. Packed complete with screws. **Set.....$6.00**

FRONT DOOR SETS.



No. 1642. Wrought Steel Antique Copper Finish. Set comprises one Iron Front lock and bolt 4¾″x3¾″ with one lock key and two night keys, 1 pair knobs 2⅝″ with swivel spindle, inside escutcheon 10″x3″, 1 inside rose and escutcheon. Reversible either right or left hand. Packed complete with screws. **Per set.....$1.75**

No. 1739. Same design as No. 1642. Genuine wrought bronze antique copper finish. Set consists of one mortise Front door lock, 4¾″x3¾″, with heavy bronze front and bolts, one lock key and two night keys, one pair real bronze knobs 2⅝″ with swivel spindle, one outside escutcheon 10″x3″, one inside rose and escutcheon. Reversible, right or left hand. Packed complete with screws.
Price per set.....$2.25



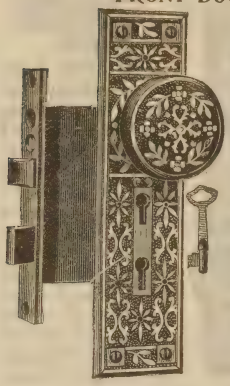
FRONT DOOR SETS

No. 1677. Wrought Steel Plated in Antique Copper Finish Set comprises one iron front lock and bolt 4¾″x4¾″ with one lock and two night keys, 1 pair knobs 2¼″ with swivel spindle, 1 inside escutcheon 9¼″x2¾″, 1 inside rose and escutcheon. Reversible for either right or left hand. Packed complete with screws.
Price per set....$1.50

No. 1670. Same design and size as No. 1677. Wrought genuine bronze in antique copper finish. **Price per Set.....$2.00**

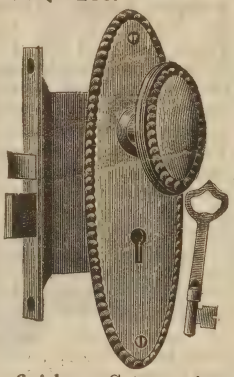
HARDWARE—Continued.

FRONT DOOR SETS.



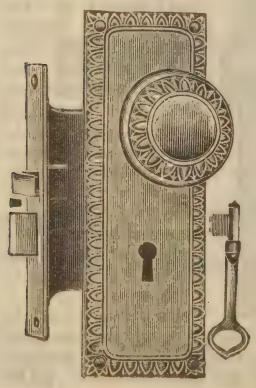
No. 1728. Genuine Wrought Bronze Metal with black background and polished raised surface. Set comprised of 1 real bronze front door lock 4¾″ x 3¾″ with heavy bronze front and bolts. 1 lock key and 2 night keys, 1 pair bronze knobs 2¼″ with swivel spindle, 1 inside escutcheon 2¼″x8″, 1 inside rose and escutcheon. Reversible for right and left hand. Packed complete with screws. **Price per set.....$1.60**

INSIDE DOOR SETS.



No. 1500. Wrought Steel Plated in Antique Copper Finish. Set consists of asteel face mortise lock 3½″x3¼″ with nickel platedsteel key, one pair knobs 2⅜″, 2 long escutcheons 2½″x7″. Packed complete with screws. Reversible for either right or left hand. **Price per set....$0.50 Per dozen sets... 5.75**

No. 1336. Same design as 1500. Wrought bronze metal antique copper finish. Set consists of a bronze metal face lock 3½″x3¼″ with bronze bolts and nickel plated steel key, 1 pair real bronze knobs 2–″, 2 real bronze escutcheons 2¼″x7½″. Packed complete with screws. Reversible for either right or left hand. **Price per set.....$0.95 Price per dozen sets..... 11.00**

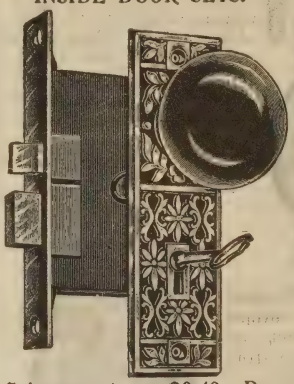


INSIDE DOOR SETS.

No. 1550. Wrought Steel Plated in Antique Copper Finish. Set consists of a steel face mortise lock 3½″x3¼″ with nickel plated steel key, 1 pair knobs 2¼″, 2 long escutcheons 2½″x7″. Packed complete with screws. Reversible for either right or left hand. **Price per set.$0.48 Dozen sets...$5.50**

No. 1492. Same design as No. 1550. Genuine wrought bronze in antique copper finish. Set consists of a bronze metal face lock 3½″x3¼″ with bronze knobs 2¼″, 2 long real bronze escutcheons 2½″x7″. Packed with screws. Reversible for either right or left hand. **Price per set.....$ 0.93 Price per dozen sets..... 10.75**

INSIDE DOOR SETS.



No. 2000. Wrought Steel, Bronze Plated, Set consists of steel face mortise lock 3½″ x 3¼″, nickel plated steel key, 1 pair of jet knobs 2¼″ with two long escutcheons 1⅞″x5⅜″. Reversible for right or left hand. Packed complete with screws. **Price per set.....$0.40 Dozen sets... $4.50**

SLIDING DOOR SETS.

No. 14905. Wrought Steel in Antique Copper Finish. For single doors, Flat Front. **Price per set..$1.15**

For double doors. Flat front. **Price per set.....$1.80**

For double doors. Astragal front. **Price per set..$2.20**

No. 1575. Genuine Wrought Bronze. Same design as No. 14905. For single doors, flat front. **Per set.....$1.40**

No. 14905. No. 14950.

For double doors, flat front. Set..$2.05

For double doors, astragal front. Set.....$2.50

No. 14950. Wrought Steel in Antique Copper Finish. For single doors, flat front. **Price per set...$1.10**

For double doors, flat front. Set..$1.75

For double doors, astragal front. Set.....$2.10

No. 14977. Genuine Wrought Bronze. Same design as No. 14950. For single doors, flat front. Per set....$1.35

For double doors, flat front. Set.....$2.00

For double doors, astragal front. Set...$2.40

BUILDERS HARDWARE—Continued

DOOR KNOBS.

Rim Knobs.

Mortise Knobs.

Common door knobs 2¼" diameter with 5-16 spindles. Price quoted is for one pair of knobs with connecting spindle. Mineral knobs are mottled brown. Porcelain knobs are white. Jet knobs are Black. All have Japanned shanks and roses.

No. 7590. Mineral knobs for Rim locks.
Price per pair....$0.08 Dozen pair..... 85

No. 8000. Porcelain for rim locks.
Per pair.....$0.09 Dozen pai..... .90

No. 8005. Jet knobs for rim locks.
Per pair.....$0.09 Dozen pair..... .90

No. 8010. Mineral knobs for mortise locks.
Per pair.....$0.08 Dozen pair..... 85

No. 8015. Porcelain knobs for mortise locks.
Per pair.....$0.09 Dozen pair..... .90

No. 8020. Jet knobs for mortise lock.
Price per pair....$0.09 Dozen pair.... .90

CHAIN BOLTS.

No. 8025. Chain bolts. Antiquelcopper finish for top of door.

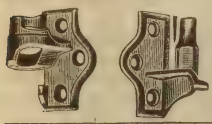
Length inches	6	8
Price each	$0.48	$0.50

FOOT BOLTS.

Antique copper finish for bottom of door.

Length in	6	8
Each	36c	43c

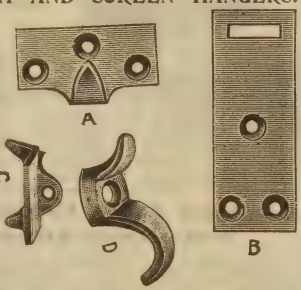
BLIND HINGES AND FASTS.



No. 8970. Price does not include screws, for frame buildings.
Price per set.....$0.09
Price dozen sets.. .90

STORM SASH AND SCREEN HANGERS.

No. 9880. For use on either storm sash or window screen. A full set consists of 2 pieces of each of all parts; cut shows only half set.
Price per set (with screws) $0.15



SPRING BOLTS.

No. 15458. Window spring bolts, Japanned silver tip, tin case.
Price per dozen.....$0.12
Price per gross..... 1.20

SASH PULLEYS.

No. 3386

No. 3390

No. 3386. Common Iron sash pulley with square ends. Turned wheels 2" diameter. Weight per dozen. 4¼ lbs.
Price per dozen.....$0.20

No. 3390. Builders. For outer Iron sash pulley. Easily set, 2" turned wheel, weight per dozen 4 lbs.
Price per dozen.....$0.22

ALL STEEL SASH PULLEYS.

No. 3395. Steel sash pulley, easy running, noiseless in action, indestructible; axle runs in steel bushing, diameter of wheel 2", weight per doz. 1½ lbs.
Price per dozen. ...$0.22

IRON SASH WEIGHTS.

No. 9870. All sizes.
Price per pound.....$0.01½

SASH CORD.

No. 3497. Standadr Braided sash cord. Size 8–32. Put up in bundles of 100 feet. **Price per bundle..$0.60**

No. 4000. Silver Lake sash cord. Size 8–32. Put up in bundles of 100 feet.
Price per bundle.....$0.65

BAR SASH LIFTS.

No. 15457. Plated in antique copper finish.
Price each.....$0.06
Price per dozen.....$0.60

HOOK SASH LIFTS.

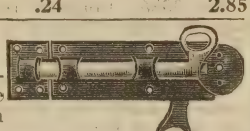
No. 15412. Wrought steel antique copper finish. Packed complete with screws.
Price each.....$0.02½
Price per dozeh..... 0.20

HINGES, BOLTS AND HASPS.

No. 2312. Wrought steel screw shop hinge. Requires 2 bolts ⅜″ in diameter and 4 bolts 5-16″ in diameter. Bolts not furnished

Size inches	Price per pair	Price doz. pair
10	$0.16	$1.90
12	.20	2.40
14	.24	2.85

BARN DOOR BOLT.



No. 2315. Japanned iron. Can be operated from both sides of door.

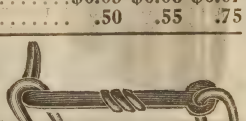
Length 8″. Price each. $0.16
Price per dozen. 1.75

IRON DOOR BOLTS.

No. 2316. Wrought iron Barrel Japanned finished.

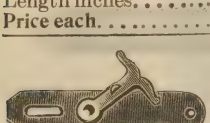
Size inches	4	5	6
Price each	$0.05	$0.06	$0.07
Price per dozen	.50	.55	.75

HOOKS AND STAPLES.



No. 2317. Wrought iron hooks and staples.

Length inches	4	6
Price each	$0.01	$0.02



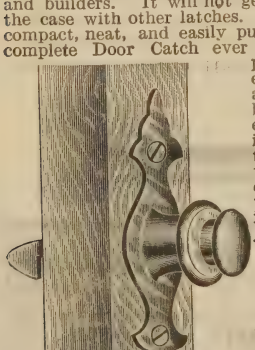
HASPS AND STAPLES.

No. 2318. Wrought steel hasp and staples with double hook.

Length inches	6	8	10
Price each	$0.02	$0.02	$0.03
Price per dozen	$0.16	$0.19	$0.27

NEW ERA DOOR CATCH

The New Era Door Catch is a new and novel invention, and long-felt want by manufacturers and builders. It will not get out of order as in the case with other latches. It is simple, durable, compact, neat, and easily put on. It is the most complete Door Catch ever manufactured. It is pronounced by builders, cabinet makers and manufactures to be the best catch ever made. By pushing on the button with thumb you pull at the same time, to open the door; to close the door, simply push it to, it is self-locking.



Fancy Escutcheon Door Catch

Represents a fancy Escutcheon Hook Catch, adapted to all kinds of cabinet ware cupboards, and other purposes.

Lot No.	Material.	Finish.	Price each.	Per doz.
186	Iron	Oxidize	$ .10	$1.00
183	Iron	Bronze	.12	1.25
181	Solid brass	Brass	.20	2.00

Cupboard and Door Catches.

This cut represents the knob on door detached from adjustable hook under shelf, showing dotted line of lever inside of door.

The hook and lever is made of iron, coppered.

Fancy Escutcheon Door Bolts with Lock,

Has a locking attachment as shown in this cut

Adjustable to fit any door. All real bronze metal with bolts. Solid all bronze metal knobs. Lever of iron, coppered, balance of catch and lock and trimmings of all bronze metal. Keys nickel plated.

Each $0.20
Per dozen 2.00

Stock and Finishes.

Lot No.	Description.	Price each.	Per doz.
124	Plain, round coppered finish	10c	$1.00
125	Plain, round oxidized,	10c	1.00
122	Plain, round nickel plated	10c	1.00
121	Solid real bronze plain, round	15c	1.50
120	Solid real brass plain, round	15c	1.50
105	Solid real brass fancy, round	15c	1.50

Round Door Bolt Cacth.

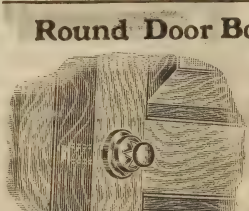


Fig. 4.

This figure represents the knob on door detached from the keeper on jamb, showing dotted lines of bolt case inside of door, which is operated by hand.

Lot No.	Material.	Finish,	Price each.	Per doz.
101	Iron	Japan	12c	$1.25
116	Iron	Nickel	12c	1.25
114	Iron	Bronze	12c	1.25
110	Real Bronze	Plain	18c	1.75
111	Real Brass	Plain	18c	1.75
115	Real Brass	Oxidized	18c	1.75

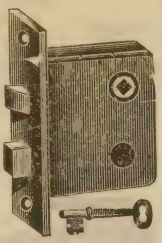
Elongated Fancy Escutcheon Bolt, with Locking Attachment.

Represents an elongated Fancy Escutcheon Bolt Catch with lock and key. They are intended for use on fine or fancy cabinet ware and cupboards. Adjustable to fit any door. All real bronze metal with bolts. Solid all bronze metal knobs. Lever of iron, coppered, balance of catch and lock and trimmings of all bronze metal. Keys nickel plated.

Lot No. 234. Nickel finish.
Each $0.30
Lot No. 230. Bronze finish.
Doz $3.00

BUILDERS HARDWARE—Continued.

MORTISE KNOB LOCK FOR INSIDE DOORS



Prices do not include knobs.

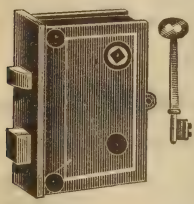
No. 3108. Size 3½x3¼. Steel Front, Iron Bolts. Tinned Iron key. Ea. **$0.15** Per dozen. . . . **$1.50**

No. 3109. Size 3½ x 3¼. Plated Steel. Front, Plated Bolts. Nickel Plated Steel Key. Ea..**27c.** Doz..**$2.75**

No. 3126. Size 3½ x 3¼. Cast Brass Front and Bolts. Nickel Plated Steel Key Each.....**$0.30.** Per doz.....**$3.00**

No. 3340. Size 3¼x3¼. Cast Brass Front and Bolts. Coil Easy Spring. Nickel Plated Steel Key. Ea...**$0.50** Doz..**$5.00**

UPRIGHT RIM KNOB LOCKS.

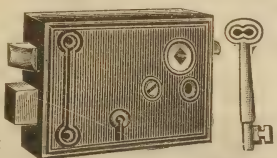


Prices do not include Knobs.

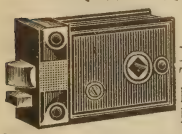
No. 7536. Size 4 x ¾. Iron Bolts Ea...**$0.13** Per dozen **1.35**

No. 7539. Size 5x¾. Brass Blots. Each. **.30** Per dozen **$3.00**

No. 7540. Horizontal wrought steel rim knob locks With iron bolt and without knobs. tinned Iron key. 4½" x 3¼". Each....**$0.18.** Per dozen....**$1.90**



HORIZONTAL RIM KNOB LATCH.



Without Knobs.

No. 7550. Size 3½"x2½". Iron bolt sliding iron. Thumb bolt with screws.
Price each. **$0.10**
Price per dozen. **1.10**

RIM NIGHT LATCHES.

Used Without Doors Knobs.

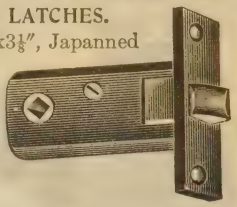
No. 7560.

They are operated from outside by key only and on inside by the knob. The bolt may be fastened back by the spring catch on inside of case.

No. 7560. Horizontal cylinders Rim night latch. Japanned case size 2½"x3¾". Bronze bolts and escutcheon; 3 German silver keys. For either right or left hand doors from ⅞" to 3" thick complete with screws.
Price each. **$1.00**

No. 7570. Horizontal tubular rim night latch. Size 3½"x2⅜". 2 flat keys for doors from 1" to 1¾" thick complete with screws.
Price each. **$0.25**

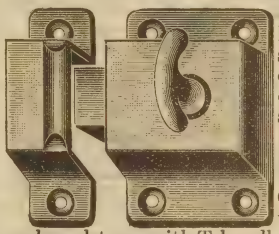
MORTISE KNOB LATCHES.



No. 7580. Size 1¾"x3⅛", Japanned iron case, iron front, and strike without knobs.

Price each....$0.07
Per dozen..... .75

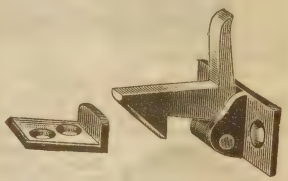
CUPBOARD TURN.



No. 15466. Madeof wrought steel antique copper finish, complete with screws.
Price ea...$0.12
Per doz... 1.25

No. 15465. Genuine wrought bronze cupboard turn, with T handle, complete with screws. Same design as 15460.
Price each. **$0.23**
Price per dozen. **$2.50**

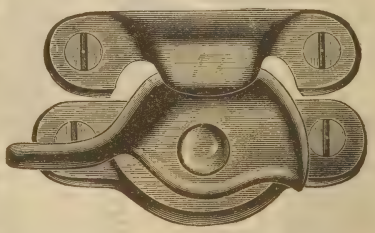
ELBOW CATCHES.



No. 15470. Japanned Iron.
Each...$0.03
Dozen.. 0.25

No. 15475. Polished brass or antique copper finish. **Price each**.....**$0.08**
Price per dozen. **0.80**

SASH FASTENERS.



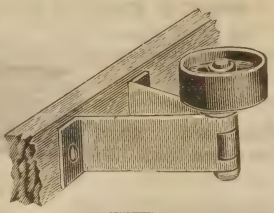
No. 12922. Antique copper, plated, packed complete with screws.
Price each. **$0.05**
Price per dozen. ..... **.55**

ORNAMENTAL SASH FASTENERS.

No. 12925. Bronze plated, finish.
Price each. **$0.04**
Price per dozen. ... **.38**

Hangers, Butts and Hinges.

BARN DOOR STAY ROLLERS.

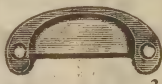


No. 2314. Suitable for any thickness door. Price each $0.08

BARN DOOR PULLS.

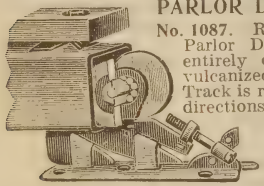
No. 2313. Weight 10 oz. Price each. $0.03

DRAWER PULLS.



No. 1091 Wrought Steel antique copper finish. Length 3⅞".
Price each.....$0.04
Price per dozen.....35

PARLOR DOOR HANGER.



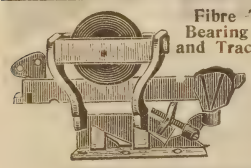
No. 1087. Roller Bearing Steel Parlor Door Hanger made entirely of steel, noiseless, vulcanized fibre wheels. Track is rigid and firm. Full directions packed with each set. Complete with track.

FOR DOUBLE DOORS.

Size of Opening	4 ft.	5 ft.	6 ft.	7 ft.
Per set.....	$3.20	$3.30	$3.40	$3.50

FOR SINGLE DOORS. No. 1087½.

Size of Opening	3 ft.	4 ft.	5 ft.	6 ft.
Per set.....	$1.65	$1.85	$2.15	$2.55



Fibre Tread Noiseless Ball Bearing Parlor Door Hangers and Track. No. 1088. For Single Doors complete with 8 feet of track. Per set..$1.59
No. 1089. For Double Doors complete with 14 feet of steel track Per set.....$3.00

DOOR BUTTS.

Wrought Steel Loose Pin Ball Tips, antique copper finish. Packed complete with screws.

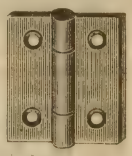
Size	Price per pair	Price doz pair
2 "x2 "	$0.13	$1.35
2½"x2½"	.16	1.50
3 "x3 "	.16	1.60
3½"x3½"	.17	1.72
4 "x4 "	.20	2.00
4½"x4½"	.25	2.60
5 "x5 "	.32	3.50

No. 1970. Japanned Steel Butts. Loose Pin with ball tips, without screws.

Size	Price per pair	Price per dozen pair
2 "x2 "	$0.06	$0.65
2½"x2½"	.07½	.80
3 "x3 "	.08½	1.00
3½"x3½"	.10½	1.20
4 "x4 "	.13	1.50
4½"x4½"	.16	1.80
5 "x5 "	.19	2.20

NARROW STEEL BUTTS.

Prices are without screws.



Length inches	Price per dozen pair.
1	$0.11
1¼	.13
1½	.16
2	.22
2½	.28
3	.37

FLOOR SPRING HINGES.

No. 1032. Ball Bearing Adjustment Double Acting. To spring both ways; tension can be easily changed They are noiseless and easy acting. Antique copper finish. For doors 1⅜" to 2". Price each. $1.63

HINGES.

No. 2307. Light wrought steel strap hinges, with screws. Size mentioned is measurement from joint to end of hinge.

Size inches	Price per pair	Price per dozen pair
3	$0.03	$0.32
4	.04	.40
5	.06	.60
6	.07	.70

No. 2308. Heavy wrought steel shop hinges, without screws.

Size inches	Price per pair	Price per dozen pair
6	$0.08	$0.80
8	.12	1.40
10	.17	1.90
12	.25	2.85
14	.34	3.90

No. 2310 Extra heavy wrought steel T hinges.

Size inches	Price per pair	Price per dozen pair
6	$0.10	$0.90
8	.14	1.48
10	.19	2.05
12	.30	3.00

No. 2311. Hinge hasp. Made of wrought steel. Without screws.

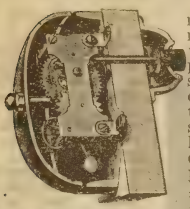
Length of hasp inches	Whole Length, In.	Price Each	Price per dozen
3	5¾	$0.03	$0.26
4½	7	.04	.34
8	12	.06	.60
10	15	.09	.90

No. 2309. Light wrought steel T hinges. Size is determined by length of strap. With out screws.

Size inches	Price per pair	Price per dozen pair
3	$0.04	$0.30
4	.04	.32
5	.05	.40

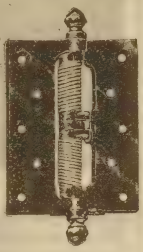
Electric Ring Door Bells.

Brand New and Perfect. Bought at Sheriff's Sale.



We offer the best electric ring door bell ever made. It requires no battery. Self-winding—rings as you push the button. It has the same powerful sound as an electric bell, and is at once the most perfect, novel and simple door bell on the market. It is 4 inches in diameter. The gong is full nickel plated, plain bronze rosette.
Price each.....$0.60
Per dozen..... 6.00

Jewett's Spring Butts.



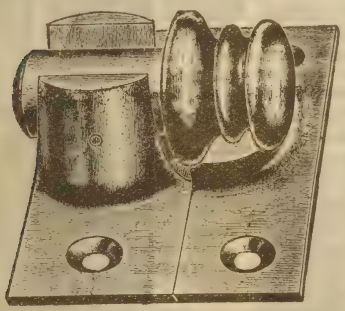
Lot No. 150 High grade singled japanned spring butts, simple and effective, best on the market, nickel springs, packed 1 pair to a box. Our stock consists of
88 pair for 1½ inch doors, price per pair.....$1.00
25 pair for 1¾ in. doors, price per pair.....$1 10
35 pair for 2 in. doors, price per pair.....$1.25

Nickel Plated Hinges.

Lot No. 133 Solid brass, brand new first class, 1000 dozen for sale. Width 1 inch, length 1¾ in.
Per dozen.....$0.60
Per gross..... 6 50

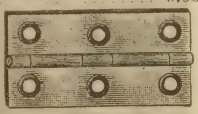
Hoyt's Patent Bull Dog Window Lock.

Brand New. Bought at Receivers' Sale.

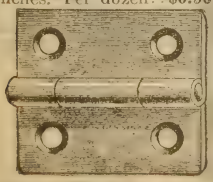


It presents a splendid finish, and when unlocked is entirely out of the way. Never gets out of order, is superior to anything in the market, and when locked, as shown in the cut, is **absolutely burglar proof**; cannot be opened or forced except by breaking or removing the window glass. Finished in nickel plate highly polished.
Each.....$0.05
Per dozen..... .50
Per gross..... 5.00

Brass Butts.



Lot No. 155. 200 dozen solid brass, brand new, width 1 inch, length 1¾ inches. Per dozen..$0.50



Steel Butts.

Lot No. 156. 200 dozen steel, black finished butts, 1½ inches.
Price per doz...$0.25
Price per gross..2.50

A DEAL IN PADLOCKS.

The following Padlocks are absolutely guaranteed in every way. They were purchased in carload quantities at extremely low prices. Fully warranted in every way.

No. 203.

No. 196.

No. 303 Heavy brass plated, square spring shackles, self locking. Price each.....10c
Per dozen.....$1.10

No. 196 Enameled steel case, three brass levers. Price each.....12c. Per dozen...$1.35

No. 175 Brass plated and shackle.
Price each.....20c. Per dozen.....$2.00

No. 89.

No. 88.

No. 89 Solid gun bronze metal, spring shackle, self locking. Two flat steel keys.
Price each.....25c. Per dozen.....$2.40

No. 88 Full nickel plated on steel, and very heavy—weighing 6 pounds to the dozen—spring shackle, self locking, brass cylinder key guides. Two flat steel keys. Highly polished.
Price each.....13c. Per dozen.....$1.25

No. 80.

No. 200.

No. 80. We fully guarantee these six-lever padlocks as accompanying illustration, to be equal to the best similar goods ever made, in every respect, in construction, workmanship and finish. They are brass finished. Springs of phosphor bronze, guaranteed not to rust or corrode, and will stand any climate. All inside works constructed of hard metal, and are full six-lever, not one, two or three lever as are some imitations. Keys are made of best rolled steel, heavily nickel plated. Finished in the best style. For security, durability and convenience, these locks have never been equaled. Packed one-half dozen in a box, two keys each with six changes. Size, 2¼ inches.
Price.....Each, $0.20
Per dozen..... 2.00

No. 200 Iron tumbler padlocks.
Price each.....5c. Per dozen.....55c

LORIE WINDOW FASTENERS

A REAL BURGLAR PROOF FASTENER.

We Bought the Complete Stock of the Celebrated.

Lorie Patent Ventilating Window Fasteners.

The simplest and best device of thls kind manufactured. The only reel burglar proof fastener on the market. These goods are absolutely first class, brand new and perfect in every way.

Style No. 1. The simplest and strongest fastener on the market. Is opened or closed by touch of the hand, no matter what the position of the window may be. Effectively stops rattling. It has the compensating action and will not wear out. We can furnish same in the following sizes:

Berlin bronze
Per dozen $0.50
Black Japan,
Per dozen..... .50
Dead black,
Per dozen ..... .40
Bright nickel,
Per dozen ..... .60
Copper oxidized,
Per dozen ..... .70
Polished copper
Per dozen ..... .70
White nickel,
Per dozen..... $0.50
Bright brass,
Per dozen..... .80
Lacquered, Per dozen..... .50
Brass plate, Per dozen..... .50
Copper plate, Per dozen..... .50
Polished nickel, Per dozen..... .70

Style No. 2. The same as No. 1 with the addition of a locking pin and bracket, which makes it impossible for the lower sash to be pushed up from the outside, or for the handle to be manipulated through the opening at the top of the sash.

Allows 6 inch opening. All in copper oxidized finish.

Per dozen..... 1.00

Style No. 4. Is semi automatic, being same as No. 1 with the addition of a locking hook, which automatically locks the lower sash when it is pulled down, and makes it impossible for it to be pushed up from the outside. Allows 12 inch opening. Comes in the following finishes:

Berlin Bronze,
Per dozen....$1.00
White nickel,
Per dozen.. 1.00
Dead black,
Per dozen.. .80
Copper Plate
Per dozen.... .80
Black japan,
Per dozen.... .80
Brass Plate
Per dozen.... .80
Polished nickel, Per dozen..... $1.25
Copper oxidized, Per dozen 1.25
Bright nickel, Per dozen..... 1.25
Lacquered, Per dozen..... .80

Style No. 5. Is the same as No. 4 with the addition of a locking pin, which makes it impossible for the handle or hook to be manipulated through the opening at the top of the sash Allows 12 inch opening Comes in the following finishes:

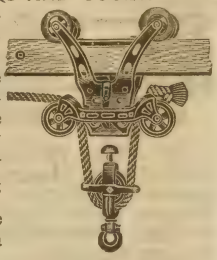
Dead black,
Per dozen.... $1.00
Copper plate,
Per dozen..... 1.00
Lacquered,
Per dozen..... 1.00
Berlin bronze
Per dozen 1.00

Style No. 8. This is pronounced by experts the most perfect fastener yet known, entirely automatic, yet so simple that any novice can affix. With this fastener the sashes are always locked unless the chain is held. Very strong and handsome. Nothing to get out of order. Just the fastener for high windows, since it is operated by a chain. It effectually stops rattling. Allows 24 inch opening. Comes in the following finishes:

Bright nickel,
Per dozen..... 1.50
Brass plate,
Per dozen..... 1.40
Berlin bronze,
Per dozen..... 1.40
Dead black,
Per dozen..... 1.40

HAY CARRIER APPARATUS.

HAY CARRIERS AND TOOLS.



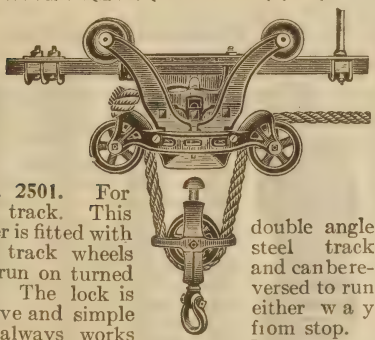
We carry a complete line of hay carriers, forks, pulleys, etc. All material are the best of their respective kinds and are fully guaranteed. Hay carriers and sling carriers are to be used with either ¾, ⅞, or 1″ manile carrier rope and ⅜ manila or cotton trip rope.

No. 2500. This carrier is designed to run on 4″x4″ wood track, is reversible, made of the best grade of malleable iron.

Reversible. Price includes stop and fork pulley. Will work with any style fork. Sling pulley is not included in price of carrier.

Price. each.....$3.00

SWIVEL REVERSIBLE CARRIER.



No. 2501. For steel track. This carrier is fitted with large track wheels that run on turned pins. The lock is positive and simple and always works satisfactorily designed to run on our double angle steel track and can be reversed to run either way from stop.

Price each. $3.50

SLING PULLEY.

No. 2511. Self locking; regardless of the load.

Price each.....$1.45

REVERSIBLE CABLE CARRIERS.

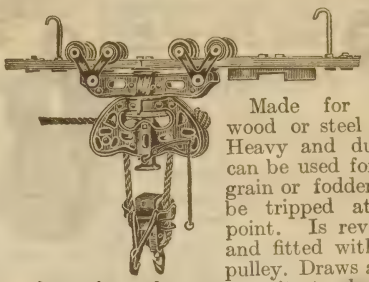
No. 2599. This carrier is reversible and will run on either ½″ cable or ⅜″ rope, is generally used for hay stacking outfits or can be used with barn outfits where you do not wish to place a permanent track. Complete with stop or fork pulley. If to be used with wagon slings a sling pulley is required and is charged for extra.

Price.....$2.95

SINGLE HARPOON FORK.

No. 2507. Single harpoon forks. Regular size. **Price.....$1.35**

DOUBLE SWIVEL SLING HAY CARRIER.



Made for either wood or steel track. Heavy and durable, can be used for hay, grain or fodder; can be tripped at any point. Is reversible and fitted with sling pulley. Draws a load up direct from the wagon as it stand son the wagon without twisting the rope.

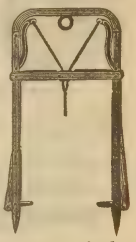
No. 2502. Wood track sling carrier.

Price.....$5.85

No. 2503. Steel track sling carrier.

Price.....$5.90

DOUBLE HARPOON HAY FORK.



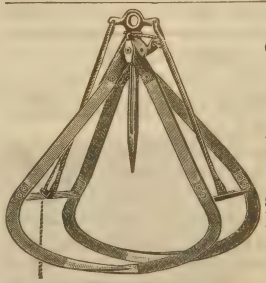
No. 2504. Short tine doubleharpoon hay fork; has 24″ tines, 16 inches between points, made of the best quality materials. **Price....$0.85**

No. 2505. Long tine double harpoon hay forks; tines are 30″ long 16″ between points.

Price each.....$0.90

No. 2506. Alfalfa double harpoon forks. Made same as No. 2504. They are, however, much heavier. Tines, 34″ long, 22″ between points. Designed for handling alfalfa and straw; can, however, be used for handling any kind of hay. **Price.....$1.80**

FOUR TINE GRAPPLE HAY FORK.



No. 2508. Six tine Grapple fork.

Price each. ..$3.30

No. 2509. For short hay and loose hay.

Price $3.95

STANDARD WAGON SLING.

No. 2510. Adjustable to suit any length of rack, have perfection trip locks, four foot slings, have two ropes between cross bars. 5 or 6 ft slings have four ropes between cross-bars. Trip rope is long enough to allow you to trip the slug. Sling pulleys or sling carriers must be used with wagon slings.

4 foot wagon slings. Price each $1.45
5 " " " " " 1.75
6 " " " " " 1.95

Hangers, Door Rails, Etc.

CLAMPS.

No. 2522. Clamp for ½" cable hay carrier. Price each $0.15

HAY CARRIER CABLE.

No. 2523. Made of 7 strands of galvanized steel wire ½" Price per foot.....$0.02½

STEEL YOKE PULLEY.

No. 2512. Steel yoke knot passing pulley, 6" hard maple sheave. Price.....$0.18

HAY FORK PULLEY.

No. 2513. Cast frame, hard maple sheave. Price each.....$0.16

SNATCH PULLEY BLOCK.

No. 2514. To shorten travel of horse without reducing power; horse travels only half distance hay is carried. Iron frame and sheave.....$0.60

DOUBLE STEEL ANGLE TRACK.

No. 2516. For hay and sling carriers only. Furnished in 10′ main pieces with two 5′ pieces to break joints.

Price includes couplings and bolts. With 30′ or more two end bumpers are furnished. Price does not include rafter brackets or hanging hooks. Price per foot.....$0.8½

ROPE HITCH.

No. 2515. Swivel rope hitch. Price each.....$0.14

BRACKETS.

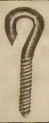
No. 2517. Rafter Brackets for hay carrier track Price each.....$0.2½

WOOD TRACK HANGING HOOKS.

No. 2518. Price each.....$0.05

Steel track hanging hook for double angle steel track. Price each.....$0.06

FLOOR HOOKS.

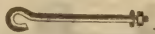


No. 2520. Floor hook to hold rope pulleys. Diameter ¾". Price.....$0.05

JOINTED HANGING HOOKS.

No. 2519. Jointed hanging hook for wood track used for hanging wood track to beams without rafter Brackets. Price.....$0.09

EYE BOLTS.

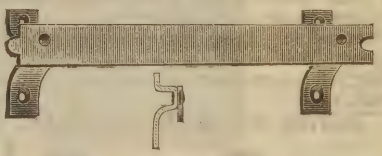


No. 2521. Eye bolt for fastening hay carrier cable to end of barn. Made with long thread to take up slack. Price each.....$0.22

BARN DOOR HANGERS.

No. 2300. This hanger is made heavy. Has roller Bearings and will run a door any distance. Screws or bolts not included, Price per pair...$0.45 Price per dozen pairs..... 4.50

BARN DOOR RAIL.



No 2301. Double Braced Steel Track made in 6′, 8′ and 10′ lengths. Size of track 3-6"x1". No screws furnished. (For pulling up Rail use 5-16" long screws or No. 12 wood screws). Price per foot.....$0.03½

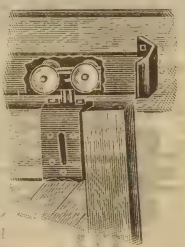
HINGE JOINT HANGERS. Roller Bearings.

No. 2202. Made of cold Rolled steel with exception of wheel. Has roller bearings. Will carry any sized door on any length ofrun. The hinge joint prevents door from binding. Cannot be thrown off the track on account of guard that runs under the rail.

Price per pair.....$0.55
Price per dozen pair..... 6.00

No. 2303. Track for above hanger, size 1¼"x3-16". Comes in lengths of 4′, 6′, 8′ and 10′. Price per foot.....$0.04½

ROLLER BEARING TROLLEY BARN DOOR HANGERS.



No. 2304. Suitable for doors from 1½"x2¼" thick. The wheels run inside of the hollow steel track which protects them from the weather. The easiest running hanger on the market. A set consists of 2 Hangers, one right end bracket, one left end bracket., complete with wood screws for hangers and long screws for track bracket. Weight per pair 11¾ lbs. Price per set $1.35

When ordering give thickness of door, actual width of opening and mention whether for single or double doors.

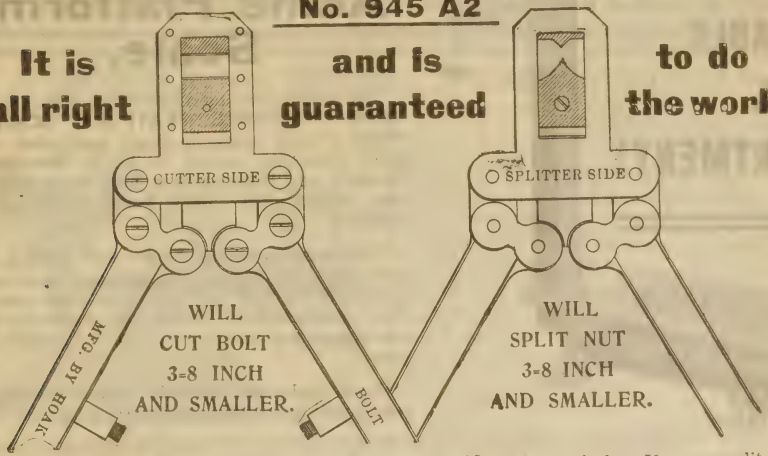
No. 2305. Steel trolley track for the above hanger. Price per foot.....$0.10

No. 2306. Steel track bracket for holding above track without screws. Price each $0.10

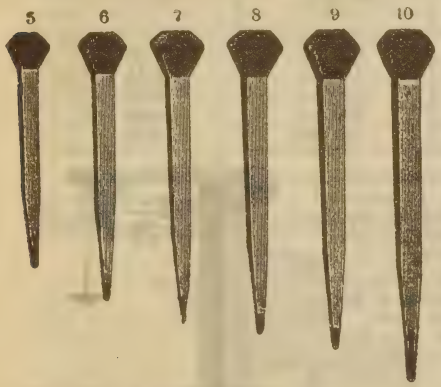
A BARGAIN IN BOLT CUTTERS

No. 945 A2

It is all right and is guaranteed to do the work



Two machines in one, simple in construction, light, durable and practical. You can split a nut as quickly as you can cut a bolt, no chisel, hammer or extra man necessary, no skinned knuckles or swearing, no injury to woodwork. To investigate is to buy. A trial sells the tool. **Price each**.....**$1.50**

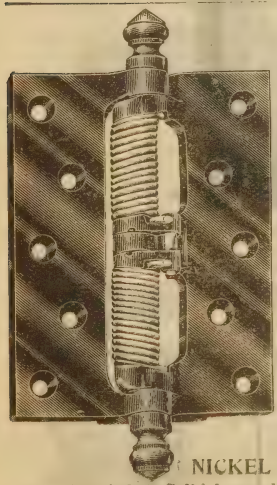


HORSE SHOE NAILS.

BRAND NEW Horse Shoe Nails, in boxes of 25 lbs. These nails are forged hot from the end of rod. Every nail is uniform and perfect. They drive better, clinch better and hold shoes on longer than any other nail on the market. No acid used in polishing.

No. 5.....	Price per Box of 25 lbs. $2.15 Any size.
No. 6.....	
No. 7.....	
No. 8.....	
No. 9.....	
No. 10.....	
No. 11.....	
No. 12.....	

We do not sell less than 25-pound box.



JEWETT'S SPRING BUTTS.

Lot No. 150 High grade singled japanned spring butts, simple and effective, best on the market, nickel springs, packed 1 pair to a box. Our stock consists of

88 pair for 1 1-2 in. doors, price per pair **$1.00**

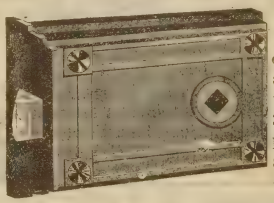
25 pair for 1 3-4 in. doors, price per pair **$1.10**

35 pair for 2 in. doors, price per pair **$1.25**

NICKEL PLATED HINGES.

Lot No. 123. Solid brass, brand new, first class. 1000 dozen for sale. Width 1 inch. Length 1½ in. **Per dozen**.....**60c** Per gross.....**$6.50**

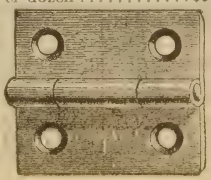
Horizontal Rim Knob Latches.



Lot No. 603. 200 dozen latches, assorted patterns, something after above illustration, plack japan, size 3¾x2½ inch, iron bolts. packed, complete with strike and screws, ½ dozen to a box.
Price per dozen, **$0.75**

Brass Butts.

Lot No. 155. 200 dozen solid brass, brand new, width 1 inch, length 1 3-4 inches. Per dozen **$0.50**



Steel Butts.

Lot. 156.

200 dozen steel, black finished butts, 1½ inches. Price per dozen.....**$0.25** Price per gross.....**$2.50**

PORTABLE SCALE DEPARTMENT!

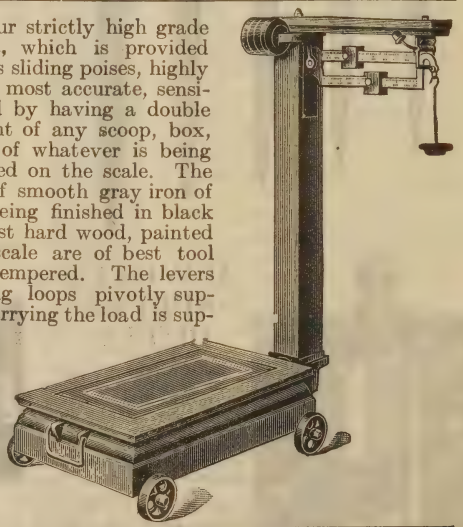
Acme Platform Scale.

The accompanying illustration shows our **ACME PORTABLE PLATFORM SCALE,** which is well made in every particular, of good materials, sealed to U. S. Standard Weights and fitted with a solid brass beam and sliding poise, both being milled and polished.

This scale is intended for those wishing a good scale for general purposes at a medium price, and the fact that we buy in large quantities enables us to furnish our customers a good weighing machine at a low or medium price.

These scales are carefully packed for shipment, with instructions for setting up.

Lot No.	Capacity.	Size of Platform.	Shipping Weight.	Price.
SC 6	600 lbs. to ¼lbs.	16½x24	150 lbs.	$ 7.50
SC 8	800 lbs. to ¼ lbs.	17x24½	155 lbs.	8.25
SC 10	1000 lbs. to ½ lbs.	17½x25	160 lbs.	9.00
SC 12	1200 lbs. to ½ lbs.	18 x26	200 lbs.	10.00
SC 15	1500 lbs. to ½ lbs.	20 x28	240 lbs.	12.50



The accompanying illustration shows our strictly high grade **PREMIER PORTABLE PLATFORM SCALE,** which is provided with solid double brass beam with solid brass sliding poises, highly polished and finished. These scales are the most accurate, sensitive and durable scales on the market, and by having a double beam enables the user to equalize the weight of any scoop, box, rack, or crate, thus securing net weights of whatever is being weighed in any receptacle that may be placed on the scale. The main frame, platform and levers are made of smooth gray iron of ample weight and strength, all iron parts being finished in black Japan. The pillar and pillar cap are of best hard wood, painted blue and striped. Pivots throughout the scale are of best tool steel drawn to a knife edge and carefully tempered. The levers are supported in hardened, flexible bearing loops pivotly supported in base frame of scale. The platform carrying the load is supported on the levers by hardened, flexible bearings, thus insuring durability to that part of scale where the wear is greatest. Our celebrated **Premier Portable Platform Scales** are sealed to U. S. Standard Weights and carefully boxed for shipment, with printed directions for setting up.

Write for our special Furniture Catalog.

Lot No.	Capacity.	Size of Platform.	Shipping Weight.	Price.
SC 60	600 lbs. to ¼ lbs.	16½x24	160 lbs.	$11.00
SC 80	800 lbs. to ¼ lb.	17 x24½	170 lbs.	11.50
SC 100	1000 lbs. to ½ lb.	17½x25	175 lbs.	12.50
SC 120	1200 lbs. to ½ lb.	18 x26	240 lbs.	13.75
SC 150	1500 lbs. to ½ lb.	20 x28	275 lbs.	15.00
SC 200	2000 lbs. to ½ lb.	25 x33	275 lbs.	19.00
SC 250	2500 lbs. to ½ lb.	25 x34	280 lbs.	21.00

MILBURN'S COMPUTING COUNTER SCALES

A WONDERFUL OFFER. READ CAREFULLY.

We purchased from the manufacturers their entire stock of the celebrated and perfected high grade Milburn Patented Computing Counter Scale. It represents the acme of perfection. Absolutely the very best and most complete scale of its kind on the market, strictly perfect in every way. Brand new and first class in every particular. Packed in original cases just as they came from the factory. Each scale a perfect gem.

We have 140 of these scales in stock and we would advise that you at once take advantage of our offer. The regular price of these scales was $40.00 until they came into our possession.

This Scale will positively pay for itself in sixty days. There are no springs to get out of adjustment, and it is fitted with agate bearings, and will **weigh and compute** as accurately as any of the high-priced, computing scales on the market. Computes fractions of ounces—no figuring required, as the chart shows exactly the amount of purchase.

These Scales are handsomely enameled, and fitted with heavy brass scoops.

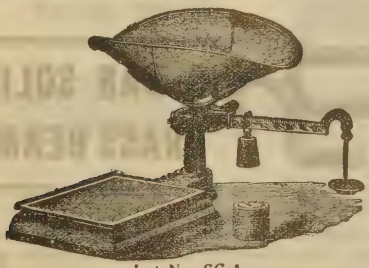
To arrive at the correct amount of purchase, slide the poise, which is attached to the price chart, to the number of ounces of merchandise to be purchased. The figure on the chart will show the amount of the purchase in cents.

For Example:—If your customer requires 1-4 of a pound of an article, selling at 20 cents per pound, you can set the price indicator at the 4 ounce point on the chart, then place in the scoop, merchandise until it balances. The figures on the chart will show that the amount of the purchase is 5 cents. The chart is divided into two sections. The first section to the left weighs and computes up to one pound from 5 to 24 cents per pound the second section to the right, weighs and computes up to one pound from 25 to 80 cents per pound. All purchases of one pound or less are weighed on the top beam, the poise of which is attached to the price indicator for both sections of chart. For any weight exceeding one pound, you will then use the other beams and weights which are furnished with the scales.

Lot No. RSC 1. Weighing capacity 30 pounds, computes fractions of ounces from 50 to 30 cents per pound. Price, each..... **$17.50**

Lot No. RSC 2. Weighing capacity 10 pounds, computes fractions of ounces from 5 to 30 cents per pound. Price, each..... **$15.00**

$2.45 Platform Scale.



Lot No. SC 1.

Brand New Counter Platform Scales. Has all steel bearings, carefully adjusted, heavy polished brass beam, tin scoop. Guaranteed to weigh correctly from ½ ounce to 240 pounds. Boxed ready for shipment, 41 pounds. Price, each.....$2.45

85c FAMILY SCALE.

Lot No. SC 2.

Family Scale. Made of Steel, nicely decorated. Capacity from 1 ounce to 24 pounds, can be instantly adjusted. Shipping weight, 5 pounds. **Price, each.....$0.85**

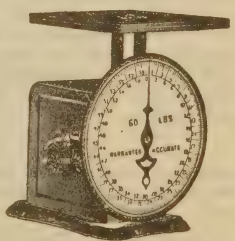
$1.10 Family Scale.

Lot No. SC. 3

Family Scale, with scoop, otherwise the same as scale Lot No. SC2. Shipping weight 6 pounds.

Price, each.....$1.10

$1.75 Counter Scale.



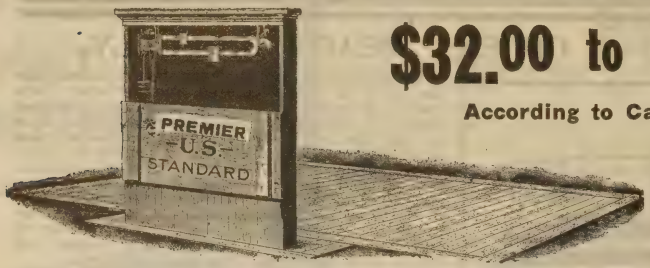
Lot No. SC 4

60-pound Counter Scale. Weighs 60 pounds by 2 ounces. Made of Cold Rolled steel, beautifully japanned. Very attractive 8x8 inch dial silver finished center and gold mounted. Scale has upright double support which distributes the weight and insures accuracy. Weight boxed, 7 pounds.

Lot SC4. Large square platform....$1.75

Lot No. SC5. With tin scoop..... 2.25

PREMIER PIT WAGON SCALE



$32.00 to $44.00

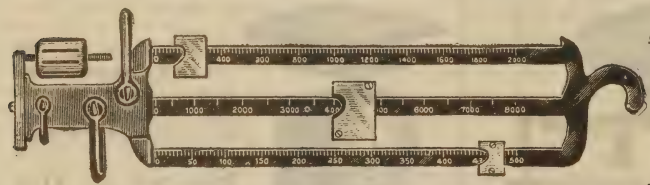
According to Capacity.

GUARANTEED FOR TEN YEARS.

This is strictly a high-grade weighing machine in every particular. The long levers are trussed and the bearings are of tool steel and carefully tempered. We furnish the **Premier Pit Wagon Scale** with double or triple full capacity combination beam. The size of platform is 8x14 feet. The beam box is made of selected 1-inch tongued and grooved lumber, painted with two coats of best lead paint, with 1½-inch molded top. In offering this **Scale,** we do not attempt to compete with the lower priced scales on the market. We are offering a scale that is constructed in the best possible manner, all parts heavily built and one that will weigh accurately at all times. This scale is furnished with solid brass double beam, finely milled and polished with brass front sliding poises. It is graduated to the full capacity of the scale and there are no loose weights to get lost or out of seal. The upper bar is graduated to 1,000 pounds by 5-pound marks; the lower bar to 9,000 pounds by 500-pound marks. The beam pivots are of the finest tempered tool steel, provided with hardened friction steels that prevent all binding and wear on the beam and beam loops.

The levers are of "T"-shaped steel and the long lever is trussed, as this lever has double the strain of the short lever. The **Premier Pit Scale** is sealed to U. S. Standard Weights, carefully crated and boxed for shipment, complete with printed directions for setting up and installing.

Lot No. PS 3. Capacity 3 tons, size of platform 8x14 feet, double brass beam.....**$32.00**
Lot No. PS 4. Capacity 4 tons, size of platform 8x14 feet, double brass beam.....**$35.00**
Lot No. PS 5. Capacity 5 tons, size of platform 8x14 feet, double brass beam.....**$40.00**



3-BAR SOLID BRASS BEAM.

Furnished with Lots Nos. P.S. 30, 40 and 50.

We can furnish the above scale with the combination 3-bar solid brass beam (see illustration), carefully graduated to full capacity of scale, thus requiring no loose weights to get lost or out of seal. The upper bar is graduated by 10-pound marks to 2,000 pounds capacity and has brass-faced sliding poise provided with set screw, so that it can be fastened at any point when used for tare purposes or otherwise. The lower bar is graduated to 500 pounds by 2½-pound marks, and has brass sliding poise. The middle bar is graduated to balance of capacity of scale by 500-pound notches, and is provided with brass-faced sliding poise, fitted with steel pin which drops in notches. This poise is sealed on each notch, thus making any variation in weight impossible. Beam and poises are all finely polished and marks are large and distinct.

Beam pivots are of the best tool steel, drawn to a knife edge and carefully tempered; each one being secured in beam by hard friction steels, which pass through beam preventing the loop from chaffing or binding against beam. The beam pivot loops are carefully tempered. The beam is equipped with a balance ball to balance off the weight of the platform as it may vary from accumulation of ice, snow, etc., and also has a counterpoise for greater variations in weight.

Lot No. PS 30. Capacity 3 tons, size of platform 8x14 feet, with 3-bar brass beam.....**$36.00**
Lot No. PS 40. Capacity 4 tons, size of platform 8x14 feet, 3-bar brass beam..**$39.00**
Lot No. PS 50. Capacity 5 tons, size of platform 8x14 feet, 3-bar brass beam.....**$44.00**

PITLESS WAGON SCALE

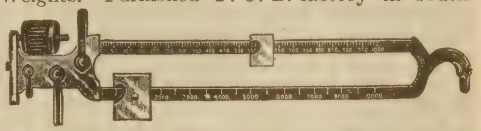
SEMI-STEEL PITLESS WAGON SCALE.
LOT No. S.C. 500.

Our new five-ton Semi-Steel Pitless Wagon Scale with solid double brass beam is an accurate and durable scale suitable for all ordinary uses. These scales are made for us under special contract by one of the largest scale manufacturers in this country, and on account of the large number we buy we are able to furnish our customers this reliable **Semi-Steel Pitless Wagon Scale** at a very low price.

We furnish this scale with five-tons capacity, same being provided with full capacity double brass beam fitted with brass sliding poises as shown in accompanying cut. The levers are made from T-shaped rolled steel and supported in frame of scale by tubular steel cross pieces which hold wood end sills in place. The platform stringer next to the beam box is made from a heavy steel I beam and supported on levers by carefully chilled bearing feet. The beam and lever pivots throughout the scale are of heavy tool steel, ground to a knife edge and carefully hardened, thus insuring sensitiveness, accuracy and durability to all parts of scale where the strain is greatest. The beam box is made of good material, well painted and provided with lock and key. We furnish this scale with all brass and iron parts, including beam box complete, same being carefully crated and boxed for shipment, with full and plainly printed instructions for setting up and installing.

The purchaser is required to furnish only the platform planks, two wood end sills 8 feet long by 12 inches wide by 3 inches thick, and one platform stringer 14 feet long by 8 inches wide by 6 inches thick. The printed directions show and describe how all wood parts are cut and how foundations should be constructed. Our Semi-Steel Pitless Scale is guaranteed to be sealed to U.S. Standard Weights. Furnished F. O. B. factory in southeastern Michigan, at the following price:

Lot No.	Capacity	Size of Platform	Shipping Weight.	Price.
SC 500	5 Tons.	8x14 ft.	675 lbs.	$39.00



ALL STEEL PITLESS WAGON SCALES.
LOT No. S.C. 750.

The accompanying illustration shows our celebrated five-ton **All Steel Pitless Wagon Scale** which is high grade in every particular, and has the direct steel lever construction, an improvement not found in any other type of Pitless Wagon Scales.

This scale is provided with combination three-bar, solid brass beam, carefully graduated to full capacity of scale as shown in accompanying cut, thus requiring no loose weights to get lost or out of seal. Beam and poises are all finely polished and marks are large and distinct. Beam and lever pivots throughout scale are of best tool steel drawn to a knife edge and carefully tempered.

The ends of the scale frame are each made from a heavy steel channel beam connected by tubular steel cross pieces, which support steel levers in frame of scale.

Scale levers are made from a single piece of heavy T-shaped rolled steel and held in scale frame in heavy hardened loops by best tempered tool steel pivots. Heavy steel I beams support platform and are held in place by hardened bearing feet supported on levers by best tempered tool steel pivots.

The beam box is made from selected one-inch tongued and grooved lumber, well made and painted, and beam box door is provided with heavy wrought hinges and flat key lock.

In fact, this scale is the best and highest grade Pitless Wagon Scale made, and is suitable for farm and commercial use where a scale is subjected to hard usage. We furnish this scale complete with box beam, same being carefully crated and boxed for shipment with full and plainly printed instructions for setting up and installing, purchaser being required to furnish only the platform planks. Our celebrated **All Steel Pitless Wagon Scale** is guaranteed to be sealed to U. S. Standard Weights Furnished F.O.B. factory in south eastern Michigan, at the following price;

Lot No.	Capacity	Size of Platform	Shipping Weight.	Price.
SC 750	5 Tons.	8x14 ft.	1000 lbs	$55.00

FIRE PROOF SAFES

Brand New, Heavy Angled, Five-Flanged Doors, Finished Very Handsomely

Construction.

The bodies of the **PREMIER SAFES** are made without panels. They are formed of a continuous piece of re-rolled wrought steel bent around the entire safe and riveted at the bottom. Heavy solid reinforced wrought steel angles at front and rear to which this plate is riveted, protect and strengthen it. The corners are bent round, giving greater strength and rigidity, and are much neater in appearance than the square corner safe. The material used throughout is heavier than is ordinarily used, and is of the best quality that can be procured.

Locks.

This is one of the most important parts of our line of safes, and particular attention is directed to combination locks, using a high grade lock of the most modern type. It has a combination dial and separate T handle for operating bolts, and by means of a very ingenious device, is so arranged that should any attempt be made to enter the safe, by drawing out or knocking in, either the dial or T handle spindle, it would result in a most hopeless lock-out. It is absolutely non-pickable and susceptible to almost an innumerable number of changes and it is practically impossible to get out of order. Our four-tumbler non-pickable lock is the result of years of study, and is as near perfect as it is possible for a lock to be. This lock is used on all our safes, and is protected with tempered drill-proof steel plates.

Construction of Doors.

All doors have the improved narrow flanges; 5 flanges on numbers 10 to 30, 6 flanges on numbers 40 and 50, the larger safes having the heavier wider flanges. This is recognized as the best construction, since it retards the penetration of heat and it strengthens the door greatly. Round bolts operate through the inner flange. This method enables us to fill the door properly and renders the lock accessible for changing the combination.

Fire Proof Filling.

The walls of these safes are filled with an absolutely fire-proof non-conducting preparation, which in a very short time after the filling is put in the safe, it adheres to the steel and becomes perfectly dry and hard, forming a compact mass as resistible as granite, thereby adding firmness to the body of the safe, which is already secured to a very great extent in the construction of its shell by heavy sheet steel and rounded corners.

Cabinet Work.

The cabinets are finished in Oak; They are fitted with air chambers at top, bottom, sides and back which effectually overcomes dampness, a fault common with many safes when closed for a long time.

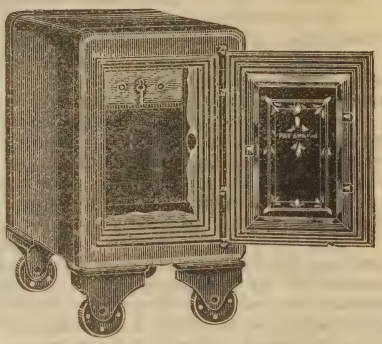
Finish

Every safe is handsomely finished and name lettered thereon without charge, if requested.

In the general construction of our safes we have endeavored to overcome the weak points and objectionable features found in other safes now on the market, and have added many improvements. Each department of our factory is in charge of an expert, and the entire shop is under the direct management of one who is recognized as the foremost safe expert in the country.

By improved methods of manufacturing and the use of especially designed machinery, we are in a position to offer you better safe values than you could possibly secure eleswhere.

Household Safe.



No. 10

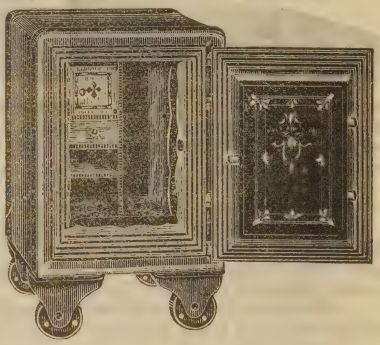
Outside Dimensions	Inside Dimensions.
Height 24½ inches	Height 11 inches
Width 15¼ inches	Width 7 inches
Depth 17 inches	Depth 9 inches

Approximate weight 300 pounds.

Arrangement of Cabinet Work.

1 drawer, 2½x7 inches, with duplicate flat key lock;
Book space, 8½x7x9 inches.

This safe we recommend for safekeeping of jewelry, mortgages, deeds and insurance papers.
Price..... **$14.00**



No. 20.

Suitable for farmers or professional men for the protection of valuable documents.

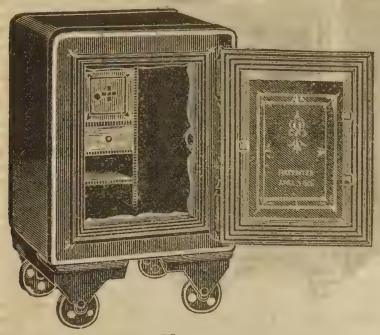
Outside Dimensions.	Inside Dimensions.
Height 27½ inches	Height 13½ inches
Width 18 inches	Width 9½ inches
Depth 18 inches	Depth 10 inches

Approximate weight, 500 pounds.

Arrangement of Cabinet Work.

Sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash tray.
1 drawer with knob, 2½x5 inches
2 pigeon holes, 2½x5 inches
1 book space 13½x4½x10 inches
Price..... **$17.50**

Lodge and Business Man's Safes



No. 30.

For business men and farmers, whose requirements are limited.

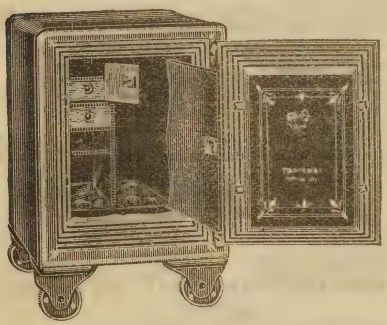
Outside Dimensions	Inside Dimensions
Height 30½ inches.	Height 15½ inches
Width 19 inches	Width 10½ inches
Depth 19 inches	Depth 10½ inches

Approximate weight 600 pounds.

Arrangement of Cabinet Work.

1 sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash drawer.
1 drawer with knob, 2½x5 inches
1 pigeon hole, 2½x5 inches
1 pigeon hole, 4½x5 inches
Book space 15½x5½x10½ inches
Price..... $19.75

Business Man's Safe.



No. 40.

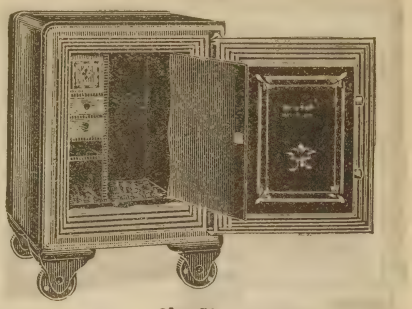
Capacity large enough to hold a set of books of standard size.

Outside Dimensions	Inside Dimensions
Height 34½ inches	Height 17½ inches
Width 23 inches	Width 12½ inches
Depth 23 inches	Depth 12 inches

Approximate weight, 800 pounds.
This safe has an inside door with improved duplicate key lock.

Arrangement of Cabinet Work.

1 sub-treasury 5x5 inches with duplicate flat key lock and Japanned metal cash tray
1 drawer with knob, 2½x5 inches
1 pigeon hole, 2½x5 inches
1 book space, 6¾x5 inches
1 book space, 17½x7½x12 inches
Price..... $24.75



No. 50

Designed especially for business men, public officials and general purposes.

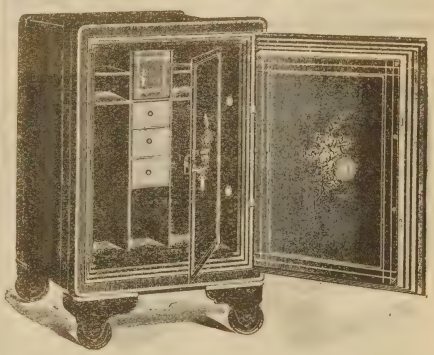
Outside Dimensions	Inside Dimensions
Height 36½ inches	Height 19½ inches
Width 25 inches	Width 14½ inches
Depth 24½ inches	Depth 12½ inches

Approximate weight, 1,000 pounds.
Has inside door with duplicate key lock

Arrangement of Cabinet Work.

1 sub-treasury, 5x5 inches, with duplicate key lock and Japanned metal cash drawer
2 drawers with knob, 2½x5 inches
1 pigeon hole, 2½x5 inches
1 pigeon hole, 6x5 inches
1 book space, 19½x9½x12½ inches
Price..... $35.00

Lodge and Business Man's Safe.



No. 60.

Outside Dimensions	Inside Dimensions
Height 42 inches	Height 26 inches
Width 27 inches	Width 18 inches
Depth 26 inches	Depth 15½ inches

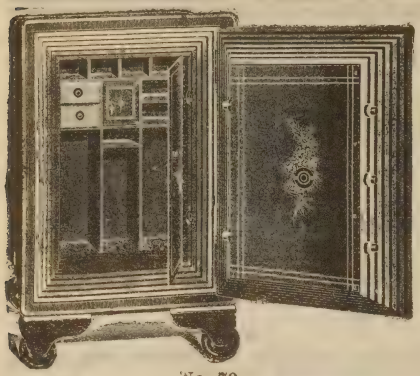
Approximate weight 1,150 pounds.
Has inside door with improved flat key lock.

Arrangement of Cabinet Work.

1 sub-treasury, 6½ inches high, 5½ inches wide, 12 inches deep
3 drawers with knob, 3 inches high, 5½ inches wide, and 12½ inches deep
4 pigeon holes 3 inches high, 6 inches wide, 14½ inches deep
1 book space 9 inches high, 5½ inches wide, 14½ inches deep
2 book spaces each 19 inches high, 6 inches wide, 14½ inches deep
Price..... $45.00

Massive Double Door Safes

COMMISSION MERCHANT'S AND BUSINESS MAN'S SAFE



No. 70

Outside Dimensions	Inside Dimensions
Height 50 inches	Height 29 inches
Width 31½ inches	Width 18 inches
Depth 30 inches	Depth 17 inches

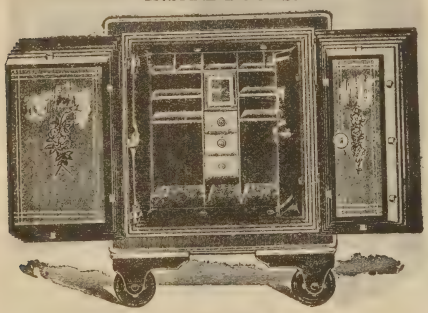
Approximate weight, 2,200 pounds.

Arrangement of Cabinet Work.

2 book spaces each 19 inches high, 4 inches wide, 16 inches deep
1 book space, 19 inches high, 5½ inches wide, 16 inches deep
1 book space, 14 inches high, 8 inches wide, 16 inches deep
4 pigeon holes 3 inches high, 4¼ inches wide, 16 inches deep
2 drawers 3 inches high, 5¼ inches wide, 15 inches deep
1 sub-treasury with duplicate flat key lock, 8 inches high, 8 inches wide, 12 inches deep

Price..... $65.00

DOUBLE DOOR SAFE WITH FOLDING INSIDE DOORS.



No. 110.

Outside Dimensions	Inside Dimensions
Height 53½ inches	Height 30½ inches
Width 37½ inches	Width 24½ inches
Depth 30 inches	Depth 16 inches

Approximate weight 3,000 pounds.

Arrangement of Cabinet Work.

2 drawers, each 3 inches high, 7¾ inches wide, 15 inches deep
1 sub-treasury, 8 inches high, 8 inches wide, 15 inches deep
5 pigeon holes, 3 inches high, 4¼ inches wide, 15 inches deep
4 pigeon holes, 3 inches high, 6 inches wide, 15 inches deep
2 book spaces each 20 inches high, 8 inches wide, 15 inches deep
1 book space, 6 inches high, 5½ inches wide, 15 inches deep

Price..... $125.00

At Receivers Sale we recently purchased a number of brand new **Cook's Patent Safes. They are thoroughly fireproof throughout.** The entire safe inside and outside, is built of steel plate with extra-heavy solid iron frame work. The door is hung on wrought steel hinges with internal fastenings The door frame and door are provided with three offset flanges, which makes it **fully as strong as any large safe.** On the inner or lower flange the rubber gasket is secured. The space between the outer and inner walls is securely packed with **fireproofing material,** forming one solid wall when completed. The combination lock is of a special design produced after a series of expensive experiments. **It is a four tumbler, all brass lock,** made in the best manner, with screw adjustments to each tumbler. Instructions for changing combination will be mailed each customer.

We offer these safes as follows:

COOK'S PATENT SAFE No. 1.

Outside Dimensions.	Inside Dimensions.
Height 14 inches.	Height 9¾ inches.
Width 9½ inches.	Width 6 inches.
Depth 8½ inches.	Depth 5½ inches.

Weight 75 lbs.

Price, with key-lock..... $5.50

COOK'S PATENT SAFE No. 1½.

Outside Dimensions.	Inside Dimensions.
Height 14 inches.	Height 9¾ inches.
Width 9½ inches.	Width 6 inches.
Depth 8½ inches.	Depth 5½ inches.

Weight 75 lbs.

Price Each, with key-lock..... $6.50
Price Each, with combination-lock..... $7.00

COOK'S PATENT SAFE No. 2.

Outside Dimensions.	Inside Dimensions.
Height 14 inches.	Height 9¾ inches.
Width 9½ inches.	Width 6 inches.
Depth 9¾ inches.	Depth 7 inches.

Weight 85 lbs.

Price Each, with key-lock..... $6.75
Price Each, with combination-lock..... $7.25

HERRINGS' PATENT CHAMPION JEWELERS' SAFE.

Thoroughly Overhauled and Refinished.

Outside Dimensions.	Inside Dimensions.
Width 44 inches.	Width 51 inches.
Height 88 inches.	Height 62 inches.
Depth 33 inches.	Depth 18 inches.

STRONG BOX WITH DOUBLE COMBINATION LOCK.

Dimensions.

Width 44 inches, Height 15 inches.
Depth 12 inches.

Safe has double outside doors with five 1¼ inch vertical lock bolts, and is fitted with combination lock. Weight approximately 10,200 lbs.

Price..... $750.00

ONE SECOND-HAND HALL SAFE.

Outside Dimensions.	Inside Dimensions.
Width 66 inches.	Width 52 inches.
Height 85 inches.	Height 60 inches.
Depth 40 inches.	Depth 23 inches.

STRONG BOX.

Dimensions.

Width 48 inches. Height 28 inches.
Depth 14 inches.

Fitted with double combination lock.

Safe has double inside doors, fitted with two 1¼ in. cross lock bolts, two 1¼ inch vertical lock bolts and key lock. Double outside door is fitted with four 1¼ inch cross lock bolts and two 1¼ in. vertical lock bolts and combination lock. Approximate weight 13,000 lbs. **Price**..... $500.00

VAULT DOORS AND LININGS

Vault Doors $37.50 to $375

OVERHAULED.

Practically Good as New for Further Service.

These Doors are nicely refinished in one color and the bright parts replated. All Doors offered are guaranteed to be fire-proof. None of them have ever been through a fire, having been taken from buildings which we have dismantled. The locks and bolt work are guaranteed to be in first-class operative condition.

Lot No. 1. 2 Vault Doors, manufactured by the Hall Safe & Lock Co. Width of frame, 30″, height of frame, 79″; width of door, 23″, height of door, 74″. These vaults have 14″ steel-clad vestibule, double inner steel doors with lever latch. Outer door has three 1″ cross lock bolts and two 1″ vertical lock bolts and combination lock.
Price, each.....**$50.00**

Lot No. 2. 3 Vault Doors, manufactured by the Diebold Safe & Lock Co. Width of frame, 38″, height of frame, 83″; width of door, 30″, height of door, 78″. These vaults have 24″ steel-clad vestibule; double inner steel doors with lever latch. Outer Door has four 1″ cross and two 1″ vertical lock bolts and combination lock. Roughing in measurements, width, 35″, height, 81″, depth, 24″.
Price, each.....**$65.00**

Lot No. 4. 15 Vault Doors, manufactured by the Livingston Safe & Lock Co. These vaults have moulded frame and the Door proper has four moulded panels. Width of frame, 39″, height of frame, 86″; width of Door, 29″, height of Door, 76″; 24″ skeleton vestibule; double inner steel doors with lever latch. Outer Door has three 1⅛″ cross lock bolts and combination lock. Roughing in measurements, 32″ wide, 82″ high, 24″ deep.
Price, each.....**$50.00**

Lot No. 5. 4 Vault Doors. Width of frame, 34″, height of frame, 50¼″; width of Door, 30″, height of Door, 45½″. Roughing in measurements, 32″ wide, 46″ high. These Vaults have skeleton vestibule 21″ deep; double inner steel doors with lever latch. Outer Door fitted with padlock.
Price, each.....**$17.50**

Lot No. 7. 4 Doors. Width of frame, 54″, height of frame, 96″; width of Door, 33″, height of Door, 82″; thickness of door, 3½″. Each Door has four 1½″ horizontal bolts, two 1½″ vertical bolts; heavy single inside doors with key-lock; heavily moulded frame. Outer Door is fitted with combination lock; steel-clad vestibule, 14″ deep.
Price, each.....**$175.00**

Lot No. 8. 1 Vault Door. Width of frame, 58″, height of frame, 96″; width of Door, 37″, height of Door, 75″; 4″ thick. The outer Door is fitted with a double combination lock; that is, there are two combination locks on the door. The inner Door is much heavier than the outer Door of an ordinary vault. Both the inner and outer Doors are fitted with four 1½″ horizontal lock bolts and four 1½″ vertical lock bolts. Inner Door also has double combination lock; steel-clad vestibule, 21″ deep.
Price, each.....**$375.00**

Lots Nos. 7 & 8. We removed from the temporary Post Office in this city the following Vault Doors, which were installed about seven years ago. They were put in especially for the Government, and all of the Doors were manufactured by George L. Damon, Boston, Mass.:

Lot No. 6. 4 double compartment Strong Boxes, manufactured by MacNeale & Urban. Width over all, 58″; height over all, 34″; depth, 16½″. Width of each door, 26½″. Each Door is fitted with combination lock.

These Strong Boxes are intended to be used inside of a Vault and are extremely desirable for this purpose.
Price, each.....**$40.00**

VAULT LININGS.

The Post Office Vaults had steel linings. The sizes of these linings are as follows:

Lot No. 20. One room, 13′6″ wide, 10′ long and 9′ high; steel plates on floor, sides and ceiling.

Lot No. 21. Two rooms, each 40″ wide, 80″ long and 8½′ high. Steel plates on floor, sides and ceiling.

Telephones and Supplies

We offer a complete line of telephones built by one of the largest and oldest telephone manufacturers under the direct supervision of telephone engineers. We have contracted to take the greater part of their output, which places us in a position to sell you the best constructed instruments on the market at prices which will compete with the cheaper line of telephones which are being offered. We guarantee that any telephones that we sell will operate successfully and prove entirely satisfactory to you and if not equal to any instrument you have ever used from any standpoint, you can return them at our expense within thirty days, and we will refund in full the amount paid. Should you want to connect with a line already established, it is not necessary that the telephones be of the same manufacture, but the ringers on a bridging line must be of the same resistance, that is, if the line to which you wish to connect is equipped with 1600 ohm ringers, the ringers on your telephone must be of same resistance, otherwise you cripple the service on entire line.

DESCRIPTION OF OUR HIGH GRADE TELEPHONES.

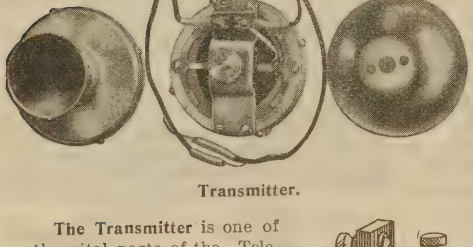
THE CABINETS are made of highly polished Golden Oak which is kiln dried and is constructed in the most careful and workmanlike manner with lock corners. Each telephone is equipped with self-cleaning approved Lightning Arrester, which gives the most perfect protection against burnouts by lightning.

RINGER

Ringer.

The Ringer is of the type employing two spools or coils. The permanent magnet is fastened to the base by two screws. It also supports the adjustment of the armature. The adjustment of our Ringer is obtained by a screw passing through the permanent magnet. Turning this screw to the right or left with an ordinary screw driver will obtain an immediate and perfect adjustment. Our Ringers are wound to the proper resistance with silk insulated wire.

TRANSMITTER



Transmitter.

The Transmitter is one of the vital parts of the Telephone. We use a solid Back Button Type Transmitter. It has highly polished Carbon Electrodes. It is constructed along the lines that have been in use by the standard companies for several years past. The articulation is clear and distinct and it is guaranteed to transmit successfully over long line.

BATTERIES

Two cells of the high grade **"1900" Dry Battery** are furnished with each of our Telephones.

LIGHTNING ARRESTER

The Lightning Arrester is an improved form of the carbon type, and is self-cleaning, and is guaranteed to be positive in action.

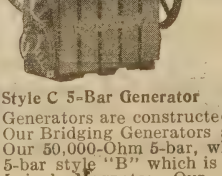
RECEIVER

The Receiver is of equal vital importance as the Transmitter. Our receiver is of the Double Pole Self-contained Type. A heavy metal cup supports the permanent magnet and the coils; in fact, the entire Receiver is assembled on this metal cup. The adjustment is permanent. The entire mechanism may be removed from the shell by taking off the cap covering the diaphragm. The Receiver has concealed binding posts, and there are no exposed metal parts. Each Receiver is equipped with a three foot Worsted Cord.

GENERATOR

Our Generators are built with laminated Armatures, which are a number of thin iron punchings securely fastened together. They are wound with silk insulated wire. The Magnets are made of the best grade of imported Tungsten Steel, and are dipped in a special aluminum paint to prevent rusting. Each Magnet when assembled on the Generator is covered with a nickel plated brass cap, which gives the Generator a handsome and finished appearance.

Style B 5-Bar Generator.



Style C 5-Bar Generator

The gears are cast from bronze and when running are absolutely noiseless. The automatic shunt on our Series and cut-in device on our Bridging Generators are guaranteed to give a higher output of current and operate more sucessfully than any Generator on the market. Our Series Generators are constructed with three (3) magnets Our Bridging Generators are made in three sizes: Our 50,000-Ohm 5-bar, which we term our regular 5-bar style "B" which is constructed with five (5) ¾ inch Magnets; Our 100,000-Ohm, which we term our extra heavy 5-bar style "C" which is constructed with five (5) 1 inch Magnets.

DESCRIPTION OF HIGH GRADE PHONES—Continued.

INDUCTION COIL

The Induction Coil is wound with Silk Insulated Wire to the proper resistance for the various types of instruments. They have fibre heads with screw clip terminals so that a Coil can be easily removed from the telephone.

SWITCH HOOK

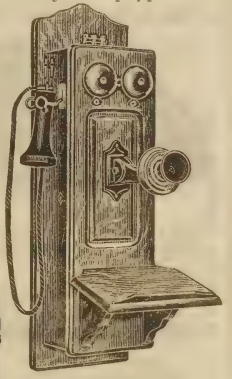
The Switch Hook is of the Long Lever Self-contained Type. The springs are of German Silver, and are guaranteed to make positive contacts. The Switch Hook is so arranged that the fork or frame is insulated and is not in the circuit, therefore, it is impossible to obtain a shock when ringing and having hold of the Switch Hook at the same time.

WE RECOMMEND That All Bridging Telephones Be Equipped with Condensers.

The benefits derived by using Condensers in Bridging Telephones are explained as follows: We will guarantee that on a line equipped with twenty telephones that you can remove eighteen Receivers from the Hooks and ring the twentieth telephone sucessfully. All of our Bridging Telephones are now equipped with Condenser Loops in the Battery compartment so that Condensers may be added to our Telephones at any time.

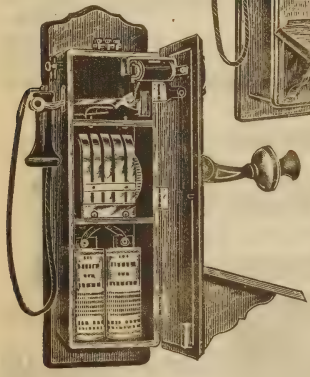
BRIDGING PHONES

Our Line of Bridging Phones are made up with 50,000 and 100,000-Ohm 5-bar Generators. We recommend that the 50,000-Ohm Generators be used only on lines where there are not more than sixteen telephones. In installing your line we advise that you consider well the possibility of the growth of your system, and if the chances are that it will eventually exceed the limit of sixteen telephones, by all means use the 100,000-Ohm Generator instruments, which will successfully operate on a well constructed line where there are as many as fifty phones. Provided they are equipped with Condensers, we advise, for good service (without the usual line troubles) not more than twenty-five telephones on a single line.



SERIES TELEPHONES

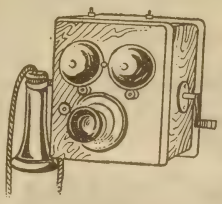
The Series Telephones are for regular exchange work and can be used successfully on party lines where not more than four instruments are installed. Our **Magneto Call Phone TL19** is more compact. Can be used for same purpose as the Type A Series Phone.



Style.		Price, each
A–1 Series	3–Bar, 80–Ohm, Ringer....	$ 7.75
B–2 Bridging	5–Bar, 1000–Ohm, Ringer....	9.65
B–3 Bridging	5–Bar, 1600–Ohm, Ringer....	9.85
B–4 Bridging	5–Bar, 2000–Ohm, Ringer....	10.00
B–5 Bridging	5–Bar, 2500–Ohm, Ringer....	10.75
C–2 Bridging	5–Bar, 1000–Ohm, Ringer....	11.00
C–3 Bridging	5–Bar, 1600–Ohm, Ringer....	11.40
C–4 Bridging	5–Bar, 2000–Ohm, Ringer....	11.50
C–5 Bridging	5–Bar, 2500–Ohm, Ringer....	11.75

Condensers installed in Bridging Telephones. Price each, extra.....$0.50

Two Party Line Telephones

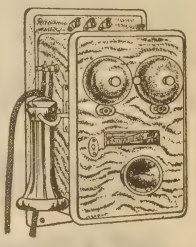


No. TL20. For Short Lines. Equipped with special Three-Bar Generators, first class receiver and transmitter. Outfit complete, including two telephones and four batteries.

Price.....$9.50

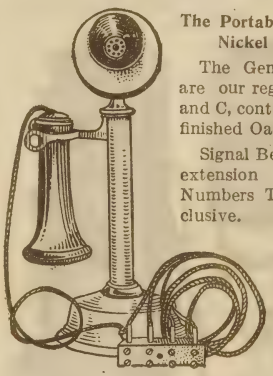
Magneto Call Phones

No. TL19. We furnish this instrument equipped with Style A Magneto Generator, with series coil wound to 80 ohms, bipolar receiver and standard transmitter. We recommend this telephone for exchanges or private party lines of any length up to 20 miles. The bells and exposed metal parts are nickel-plated, the case is cabinet finished Oak.



Price each.....$6.65

Desk Telephones



The Portable Stand is Heavy Nickel Plated Brass.

The Generators furnished are our regular Styles A, B and C, contained in a cabinet finished Oak Case.

Signal Bells are our regular extension bell described in Numbers TL24 to TL29 inclusive.

The Portable stand is brass, heavily nickel plated. The switch hook is contained in the upright standard and the induction coil mounted in the base. The Receiver and Transmitter are the same as furnished with our regular line of wall telephones. Receiver and conducting cord is silk covered. Length of cord furnished, five feet.

TL 21 Stand only.....$7.00

TL 22 Series Desk Telephone. Style A. N. 1. 80 ohm ringer.....$10.50

TL 23 Bridging Desk Telephone. Style B. N. 2. 1000 ohm ringer.....$12.50

TL 24 Bridging Desk Telephone. Style B. N. 3. 1600 ohm ringer.....$12.80

TL 25 Bridging Desk Telephone. Style B. N. 4. 2000 ohm ringer.....$13.25

TL 26 Bridging Desk Telephone. Style B. N. 5. 2500 ohm ringer.....$13.50

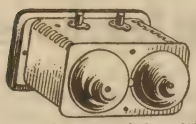
TL 27 Bridging Desk Telephone. Style C. N. 2. 1000 ohm ringer.....$13.75

TL 28 Bridging Desk Telephone. Style C. N. 3. 1600 ohm ringer.....$14.50

TL 29 Bridging Desk Telephone Style C. N. 4. 2000 ohm ringer.....$15.00

TL 30 Bridging Desk Telephone. Style C. N. 5. 2500 ohm ringer.....$15.50

Extension Bells



Extension Bells are used chiefly in connection with desk telephone or where it is desired to have the signal given a considerable distance from the instrument. The winding corresponds with the resistance of the different instruments in use.

TL 31 80 ohm Standard.....$1.45
TL 33 1000 ohm Bridging..... 2.14
TL 34 1600 ohm Bridging..... 2.40
TL 35 2000 ohm Bridging..... 2.70
TL 36 2500 ohm Bridging..... 3.10

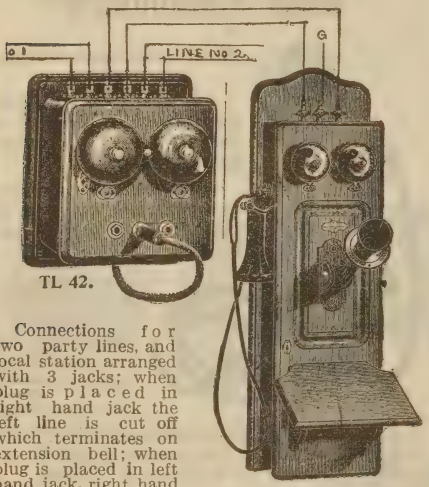
Loud Ringing Extension Bells

Loud Ringing Extension Gongs are for use in places where the ordinary extension bell would not be loud enough. They are connected the same as the ordinary extension bell, and means are provided for adjusting so they can be made to ring loud enough for any locality. The gongs are 6 inches in diameter, and are slightly eccentric, so that by loosening the clamping nut and slightly turning the gongs, any desired adjustment can be obtained.

TL 37 Price, 80 ohms resistance.....$6.15
TL 40 Price, 1000 ohms resistance..... 6.85
TL 41 Price, 1000 ohms resistance..... 7.00

Toll Extention Bell Switch.

Adapted for bridging Toll Station.



TL 42.

Connections for two party lines, and local station arranged with 3 jacks; when plug is placed in right hand jack the left line is cut off which terminates on extension bell; when plug is placed in left hand jack, right hand line is cut off which terminates on extension bell; when plug is in middle jack both lines are connected through and the home telephone is bridged on the line.

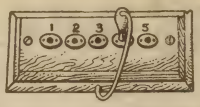
TL 42 Line extension bell switch.....$5.00

The Anti Hum

Designed to be used to stop humming on telephone or telegraph lines.

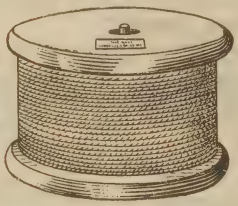
TL 46 Price each.....15c

SPECIAL PLUG SWITCH FOR INTERCOMMUNICATING TELEPHONES



This Plug Switch is designed for use in the operation of interior exchanges or telephone systems for offices, factories, etc., where it is desired to be able to call anyone on the system directly from each instrument without the use of a central office of any kind. It is by far the best switch on the market for this purpose. The plug is tapered and split, making the contact perfect and sure. This switch overcomes the difficulty experienced from the use of circular lever switches, in which the lever soon becomes loose and either falls down or fails to make a contact with the contact button. We present this as a perfect switch for the purpose. The way in which it is used is shown in the diagram furnished. It is made regularly in 3 to 25 numbers, but can be furnished in larger sizes if desired. One plug furnished with each switch.

TL 43 5 number plug.....$0.85
TL 44 10 number plug..... 1.23
TL 45 15 number plug..... 2.10
Connecting cords with plugs on each end..$0.75



INTERIOR OR OFFICE WIRE

TL 47. Double cotton covered. No. 18 ga. waxed and parraffined. 155 ft. to the pound.

Price per lb.....30

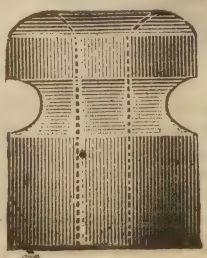
B.B. GALVANIZED TELEPHONE WIRE

BB Galvanized Telephone Wire, put up in 50 pound coils.

			Price per 100 lbs.
TL 48	No. 10 ga.	No. ft. per 100 lbs. 2076	$2.75
TL 49	No. 12 ga.	No. ft. per 100 lbs. 3400	2.85
TL 50	No. 14 ga.	No. ft. per 100 lbs. 5906	3.10

PONY GLASS INSULATORS

Lot TL 51. Per 100.
In lots of less than 1 bbl. of 400.....$1.90
In lots of 400 to 1000 lbs. 1.77
In lots of over 1000 to 10,000 lbs..... 1.70



No. 4 PORCELAIN KNOBS

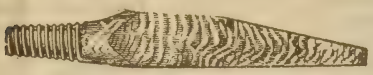
Size 1⅞x1½ inches, 5-16 inch hole.

Lot TL 52 Per 100. In lots of 100 or less...75c
In lots over 100.....60c

PAINTED OAK PINS

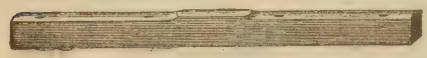
Lot TL53	Per 100.
In lots less than 500	85c
In lots of 500 to 1000	80c
In lots of 1000 or more	75c

PAINTED OAK BRACKETS



Lot TL 54	Per 100
In lots less than 500	$1.60
In lots 500 to 1000	1.50
In lots 1000 or more	1.35

YELLOW PINE PAINTED CROSS ARMS



	2¾x3¾ inches bored for 1½-inch pins.	Each.
TL 55	2-pin, length 30 inches	13c
TL 56	4-pin, length 42 inches	17c
TL 57	6-pin, length 62 inches	25c
TL 58	8-pin, length 82 inches	33c

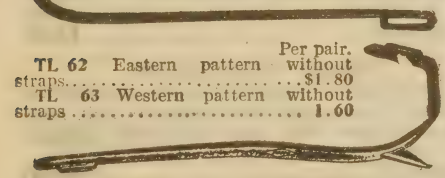
CROSS ARM BRACES

	Length	Width	Thickness		Each
TL 59	20 in.	1 in.	3-16 in.	Plain	02½c
TL 60	20 in.	1 in.	3-16 in.	Galvanized	03½

GROUND RODS

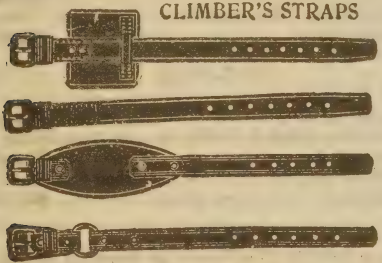
TL 61 ⅝"x5 ft. galvanized. Price each 12c

LINEMENS' CLIMBERS.



		Per pair.
TL 62	Eastern pattern without straps	$1.80
TL 63	Western pattern without straps	1.60

CLIMBER'S STRAPS

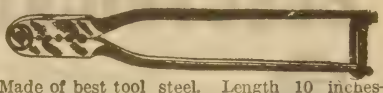


TL 64 Eastern Strap (set of 4) Per set..... 85c
TL 65 Western Strap (set of 4) Per set..... 95c

LINEMEN'S TOOL BELT

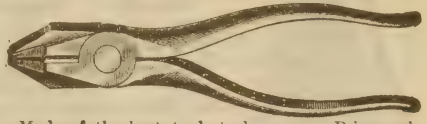
TL 70 Plain Belt.... $0.90
TL 71 With Safety Strap..... 2.25

LINEMENS' SPLICING CLAMPS

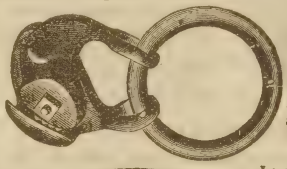


Made of best tool steel. Length 10 inches—4 round holes. For wire Nos. 8, 10, 12, and 14 ga.
TL 66 Price each..... $1.65

SIDE CUTTING PLIERS



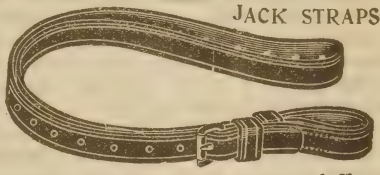
	Made of the best tool steel.	Price each.
TL 67	Length 6 inches	$1.25
TL 68	Length 7 inches	1.50
TL 69	Length 8 inches	1.80



COME ALONG CLAMP

TL 72 For No. 8 Wire and smaller. Price..... 60c

JACK STRAPS



TL 75 For use with Come Along and Clamps. No pulleys required. Price..... 85c

HAVEN'S CLAMP

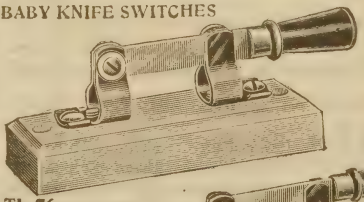
TL 73 For No. 8 Wire and smaller. Price..... $1.75

TACKLE BLOCK WIRE STRETCHER

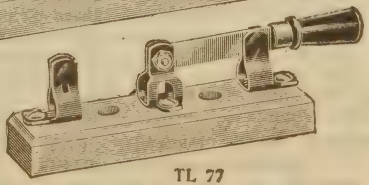
TL 74 Can be used for stretching Telephone, barb, smooth and woven fence wire. Price complete with 16 foot of ⅝-inch rope..90c

No. 74.

BABY KNIFE SWITCHES



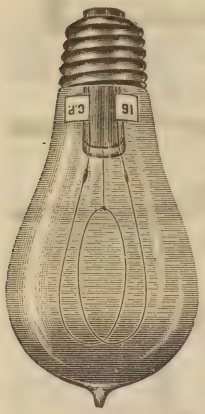
TL 76



TL 77

Mounted on porcelain base.
TL 76 Single pole, single throw..... 20c
TL 77 Single pole, double throw..... 33c

ELECTRICAL APPARATUS



INCANDESCENT LAMPS, BRAND NEW.

Item No. 4. Representing various lots bought by us at sales and are America's best makes. Considerable ot this material came to us in connection with our purchase of the St. Louis Exposition, representing surplus stock on hand at the Exhibition. The following are all colored lamps.

EDISON BASE.

10,000 lamps, voltages from 100 to 120, 16 C. P. Price each.....$0.10

10,000 lamps, 104 to 110 volt, 8 C. P. Price each.....$0.10

3,500 lamps, 8 C. P., 101 volt, General Electric Make. Each.....$0.07

20,000 lamps, 8 C. P., 102 volt, General Electric Make. Each.....$0.06½

12,000 lamps, 8 C. P., 103 volt, General Electric Make. Each.....$0.08

2,500 lamps, voltages 200 to 250, 16 C. P. Price each.....$0.13

1,750 lamps, voltages 200 to 250, 8 C. P. Price each.....$0.12

250 lamps, 130 volts, 10 C. P. Price each.....$0.07

500 lamps, 211 volts, 10 C. P. Price each.....$0.09

250 lamps, 220 volts, 10 C. P. Price each.....$0.11

500 lamps, 120 volts, 4 C. P. Price each.....$0.13

250 lamps, 115 volts, 4 C. P. Price each.....$0.13

500 lamps, 104 to 110 volt, 4 C. P. Each.....$0.13

The above prices are based on orders for at least one case of 200 lamps at a time. Price in smaller quantities extra each.....$0.02

INCANDESCENT LAMPS, ALL T. H. BASE.

Item No. 5.

200-16 C. P., 104 voltage. Price each.$0.07
200- 8 C. P., 104 voltage. Price each.$0.07
200- 8 C. P., 110 voltage. Price each.$0.07
200- 8 C. P., 115 voltage. Price each.$0.07

The above prices are based on orders for at least one case of 200 lamps at a time. Price in smaller quantities extra each...$0.02

BRAND NEW, INCANDESCENT LAMPS, EDISON BASE, "FROSTED."

Item No. 9. 500 assorted 8 and 16 C. P., 110 to 115 voltage. Price each in any quantity.....$0.10

INCANDESCENT LAMPS, WESTINGHOUSE BASE.

Item No. 6.

200-16-C. P., 44 to 52 volts. Price each.....$0.05
200-16 C. P., 110 volts. Price each...$0.07
250-16 C. P., 210 volts. Price each...$0.09

The above prices are based on orders for at least one case of 200 lamps at a time. Prices in smaller quantities extra each.....$0.02

NATURAL COLORED, EDISON BASE, GENEUAL ELECTRIC INCANDESCENT LAMPS, BRAND NEW.

Item No. 7.

200 to a case, 104 voltage, 8 C. P. Our stock consists of 13,000 amber, each.....$0.09
400 green, each.....$0.18

Prices in any quantity.

NATURAL COLORED, EDISON BASE, INCANDESCENT LAMPS.

Item No. 8. Second hand, tested, same as above, 104 voltage.

Amber each.....$0.05
Green, each.....$0.10
Opal, each.....$0.12

SPLIT PORCELAIN KNOBS.

Item No. 10. These are B. & D. Knobs, 1 inch below groove, and most of them are new. They are bought in bulk and we ship them loose but properly packed. 50,000 for No. 4 to No. 8 wire. Per thousand.....$3.00

25,000 for No. 2/0 to No. 6 wire. Per thousand.....$4.00

SINGLE WIRE CLEATS.

Item No. 11. Most of these cleats are of the B. & D. make and were bought in bulk and are shipped that way properly packed.

2,000-for 500,000 C. M. Wire. Per hundred pair.....$0.50

50,000-for No. 2/0 to 4/0 wire. Per hundred pair.....$0.25

CUT-OUTS.

Item No. 12.

3,000-30 ampere D. P. M. L., Edison Plug Cut-Outs; second hand, in good condition. Price, per doz.....$0.60

500-50 ampere D. P. M. L., Peru Cut-Outs, brand new. Price, per dozen.....$0.40

FUSES.

Item No. 13. On hand, all kinds of Noark Spring Clip, Type "A," "B" and "C" Fuses. Send for our complete list.

LAMP CORD.

Item No. 2. Brand new cotton covered. Price per 1,000 ft. National Code Standard. Size.

No. 22. Per 1,000 ft.....$ 9.50
No. 20. Per 1,000 ft..... 11.50
No. 18. Per 1,000 ft..... 13.40

We can also make low quotations on Silk Covered Lamp Cord.

ELECTRICAL APPARATUS--Cont'd.

BRAND NEW RUBBER COVERED, SOLID CONDUCTOR COPPER WIRE SINGLE BRAID

Item No. 1. Price subject to change without notice Price based on orders for at least 1,000 ft. Price per 1,000 ft:

No. 16	$ 7.10
No. 14	8.90
No. 12	11.40
No. 10	15.20
No. 8	20.80
No. 6	32.65

Prices on larger sizes on application. We can also furnish stranded wire in all sizes. Also two braid wire, duplex wire, etc.

SECOND HAND COPPER WIRE, INSULATED.

Item No. 3.

200 ft. of 3/0 stranded conductor, triple braid, weatherproof.

2,000 ft. 2/0 solid conductor triple braid, weatherproof.

300 ft. of 300,000 C. M. slow burning weatherproof.

100 ft. of 4/0 slow burning weatherproof.

10,000 ft. No. 8 stranded conductor, rubber covered, in short lengths for 6,000 volts. Price, per ft. $0.03

6,000 ft. No. 19 double conductor, cotton covered, telephone wire. Per 1,000 ft. .. $5.00

500 ft. Triple conductor, cotton covered, telephone wire. The lot for $3.00

100 lbs. No. 18 double cotton covered bell wire in lengths from 20 ft. up. Price per lb. $0.25

ASSORTED OPALESCENT SHADE FOR 2¼-INCH HOLDER.

Item No. 23.

2 Pale Green Ball Shades, 8x3¼ inches. Price each. $0.12

200 Opalescent Shades for Miniature Lamps. Price each. $0.05

3 Holophane Shades, 12 inches in diameter. Price each. $1.25

25 14-inch Flat Opalescent Shades for 3½-inch Holder, each $0.15

10 16 inch Flat Opalescent Shades for 3½-inch Holder, each $0.25

8 Deep Opalescent Shades, 16-inch for 5½-inch Holder, each $0.40

GENERATORS AND MOTORS.

Item No. 24.

1¼-H. P., 110 volt, D. C., Western Electric Co. type, N. S., direct connected to 24-inch Exhaust Fan. Speed 750 R. P. M.

1 15-K. W. 110 volt, D. C. Edison type, Bi-Polar Dynamo.

GAMEWELL FIRE ALARM BOXES.

Item No. 28.

7 Gamwell Fire Alarm Boxes, used at the St. Louis Exposition, in first class condition. Price each. $40.00

INSTRUMENTS.

Item No. 25.

1 Keystone Volt Meter reading from 0 to 150.

1 A. C. Keystone Ammeter reading from 0 to 200.

3 A. C. Keystone reading from 0 to 1,000.

2 Wagner Watt Meters reading from 0 to 1,600 K. W. 25 cycles.

8 Stanley Watt Meters 110 volts, 200 ampere, 25 cycles.

1 Stanley Static Ground Detector 2,400 volt.

1 Thompson Portable Alternating Ammeter reading from 0 to 10.

1 Thompson Portable Alternating Ammeter reading form 0 to 5.0.

1 D. C. Volt Meter 0 to 120.

1 D. C. Ammeter reading from 0 to 400.

1 Revolution Counter reading up to 100,000,000. Heavy Brass Case 8-inch diameter. Made by Ashcroft Mfg. Co.

1 Weston D. C. Ammeter reading from 0 to 500.

1 Weston D. C. Ammeter reading from 0 to 1,200.

1 Columbia Recording Steam Gauge.

1 Crosby Recording Pressure Gauge.

1 Current Ammeter reading from 0 to 80.

1 Westinghouse Power Factor Meter 1,200 ampere, 6,000 volts, 3 phase, 3,000 alternations.

1 Westinghouse Electric Automatic Circuit Breaker, 1,000 ampere, 250 volts. Prices on application.

TRANSFORMERS.

Item No. 26.

1 32½-K. W., 1,800 volts to 500 volts

1 15-K. W. Westinghouse Oil Type Transformer 440 220-110.

3 10-K W. Westinghouse Oil Type Transformers 400 220-110.

2 5 K. W. Westinghouse Oil Type Transformers 440-110.

SWITCHES.

Item No. 14. Double pole, single throw, brake or clip, slate base, separate or removable terminals, plain finish, conforming to Underwriters Requirements at St. Louis.

9-500 to 625 Ampere, 250 volts. Each.	$3.50
36-300 Ampere, 125 volts. Each.....	2.50
2-200 Ampere, 125 volts. Each.....	1.75
8-200 to 275 Ampere, 250 volts. Each.	2.75
7-800 Ampere, 125 volts. Each.....	8.00
12-500 Ampere, 125 volts. Each.....	3.00
1-500 Ampere, 250 volts. Each.....	3.25

"PREMIER" READY MIXED PAINTS.

This paint is **freshly made and guaranteed for a period of Five Years.** Owing to our immense sale of paints, we have made arrangements with one of the largest paint manufacturers in the west to take a large part of their output which places us in a position to offer a product of high quality that would otherwise be impossible to put on the market at the low prices which we quote. This paint is made by a specialist in the paint line and is the satisfactory result of years of experience.

The proof of any paint is the satisfaction that it gives this can not be determined immediately therefore our **guarantee for Five Full Years of Satisfaction** is the proof and your protection.

Our guarantee—Premier Brand Paint will last and protect the surface which it is applied for a period of five years. If applied according to directions should the paint fail during the period covered by our guarantee we will replace without cost to you the same amount of paint as was originally purchased.

Premier Paint is composed of the very best material ground in pure linseed oil and are far superior in body, more lasting and retain their color longer and better than strictly pure lead and oil mixed by hand.

CAUTION. Stir thoroughly before using. Putty all nail holes, cracks, etc., between coats. Give all knotty or sappy parts a coat of orange shellac. For priming or first coat, reduce the paint with linseed oil in the proportion of one quart of oil to one gallon of paint. Brush out well and let dry before applying the second coat. For second coat apply the paint in its natural thickness, brushing out well. If too thick, thin with boiled oil or spirits of turpentine. For inside white use turpentine only for thinning.

Remember the condition of the material to be painted has a great deal to do with the result. Never apply paint in cold or wet weather. The wood must be thoroughly dry and well seasoned before the paint is applied.

THE QUANTITY OF PAINT REQUIRED,

One gallon will cover about 2½ squares, two coats. A "square" in painters' parlance is equal to a space 10'x10'; that is, 100 square feet. To ascertain the amount of Mixed Paint required on a building, add together the length of the building, both sides, and the width of the building, both sides. Multiply this by the average height, which will give the number of feet. Divide by 250, and this will give the result in gallons, thus.:—

Front and rear, 20 feet each...40 feet
Sides, 40 feet each.....80
120
Multiply by average height...25
600
240
Divide by.....250) 3000 12 gallons.
250
500
500

This rule will vary a trifle, owing to the condition of the wood. If painted once, or if surface is smooth and hard, less than the above quantity will do.

PREMIER HOUSE PAINT.

206	French Gray.	230	Bronze
207	Lavender	231	Willow Green
208	Straw	232	Drab
209	Pea Green	233	Olive
210	Light Drab	234	Red
211	Canary	235	Brown
212	Lemont Stone	236	French Yellow
213	Pearl	237	(See Below) *
214	Beaver	238	Lead
215	Pink	239	(See Below) *
216	Milwaukee Brick	240	Light Stone
217	Quaker Drab	241	(See Below) *
218	Nile Green	242	Dark Gray
219	Olive Drab	245	Yellow Stone
220	Cream	246	Green Tint
221	Fawn	247	Light Slate
222	Pure Blue	249	Sky Blue
223	Buff	251	Colonial Yellow
224	Terra Cotta	252	(See Below) *
225	Apple Green	255	Azure Blue
226	Leather Brown	O. W.	Outside White
227	Pure Gray	I. W.	Inside White
228	Light Blue	B.	Black
229	Maroon		

PRICES.

Bbls. (50 gals.) per gal.	$0.85
½ bbls. (25 gals.) per gal.	.88
Five gal. Buckets per gal.	.95
One gal. Cans each	.98
Half gal. Cans each	.53
Quart Cans each	.28

Special colors 239—Vermilion 237*—Myrtle Green 252*—Carmine 241*—Green

One-gallon cans.	$2.35	$1.65
Half-gallon cans.	1.25	.85
Quart cans.	.65	.45
Pint cans.	.35	.24

Premier Roof and Barn Paint guaranteed not to crack, peel or scale off. It is premanent and dries with a beautiful gloss. Made in six shades only.

Nos.		Bbls. 50 gal.	½ bbls. 25 gal.	Buckets 5 & 10 gal.	1gal cans
800	Drab.....per gal.				
801	Stone Gray... "				
802	Brown..... "				
803	Light Yellow.. "	$0.45	$0.50	$0.55	$0.60
804	Indian Red.. "				
805	Maroon..... "				

Chicago House Wrecking Co. Special Barn Paint in Red Only. Made to meet the demand for a very cheap paint. Recommended for temporary work and where a durable job is not required. This paint is not guaranteed.

Barrels (50 gallons), per gal.	$0.30
Half-Barrels (25 gallons), per gal.	.35
Buckets (5 and 10 gallons), per gal.	.40
One gallon cans, per gal.	.50

Premier Floor Paint for inside use dries in twelve hours and is not affected by water or heat. Guaranteed to be made from the very best pigments and to resist hard wear.

No.		1 ga.	½ gal.	Quart
610	Light Yellow.....per can			
620	Dark Yellow..... "			
630	Indian Red ..... "			
640	Lead Color..... "	$0.95	$0.52	$0.27
650	Drab..... "			
660	Maroon..... "			

Premier Floor Paint for outside work on porches, steps, etc.

No.		1 gal	½ gal.	Quart
610	Light Yellow.....per can			
620	Dark Yellow..... "			
630	Indian Red..... "			
640	Lead Color..... "	$1.20	$0.65	$0.35
650	Drab..... "			
660	Maroon..... "			

WAGON AND IMPLEMENT PAINT.

Dries very hard with brilliant gloss and will stand hard wear.

Shades		Gals.	½-gal	Quarts	Pints
Red.....per can.		$1.50	$0.80	$0.45	$0.25
Green.....	"	1.50	.80	.45	.25
Blue.....	"	1.50	.80	.45	.25
Black.....	"	1.50	.80	.45	.25
Yellow.....	"	1.50	.80	.45	.25

PAINTS, OILS AND VARNISHES—Continued.

CARRIAGE AND BUGGY PAINT.

Ground in No. 1 coach varnish, dries with brilliant gloss. One quart will refinish a buggy giving it two coats. Very desirable for lawn furniture and other similar articles which should be thoroughly cleaned and sandpapered before applying this paint.

No.	1 gal	½ gal.	Quart	Pint
926 Red	$1.85	$0.95	$0.50	$0.30
936 Black				
946 Yellow				
956 Green				
966 Wine				
976 Vermilion				
986 Blue				

VARNISHES.

New work must be filled before applying varnish. Old work. Remove the old finish with paint and varnish Remover. Surface should be sandpapered.

Extra light hard oil finish for house use, adapted for either grained work or light natural woods.

One gallon can, price per can	$1.40
Half " " " " "	.75
Quart " " " " "	.40
Pint " " " " "	.25

No. 1 Coach Varnish for interior work.

One gallon can, price per can	$1.10
Half " " " " "	.60
Quart " " " " "	.35
Pint " " " " "	.25

No. 1 Furniture Varnish.

One gallon can, price per can	$1.10
Half " " " " "	.60
Quart " " " " "	.35
Pint " " " " "	.25

Furniture Polish. Dries quickly and perfectly Produces a high polish and positively does not get stickly or gummy.

One gallon can, price per can	$2.50
Half " " " " "	1.25
Quart " " " " "	.75

Paint and Varnish Remover. Will remove paint, varnish, etc., from any surface immediately. One gallon will clean about 400 square feet.

One gallon can, price per can	$1.85
Half " " " " "	1.00
Quart " " " " "	.55
Pints " " " " "	.30

PURE COLORS GROUND IN OIL.

Ready for use with addition of oils, etc., for thinning.

No. FE700.	1-lb. cans	5-lb. cans
Drop Black	$0.15	$0.70
Ivory Black	.17	.80
Coach Black	.16	.75
Prussian Blue	.36	1.65
Ultramarine Blue	.17	.80
Sienna, raw or burnt	.12	.53
Turkey Umber, raw or burnt	.12	.53
Vandyke Brown	.12	.55
Chrome Green	.14	.65
Scarlet Vermilion	.18	.85
Tuscan Red	.16	.75
Venetian Red	.08	.35
Indian Red	.14	.65
Chrome Yellow	.18	.85
Yellow Ochre	.08	.35
Graining Colors (Antique, Mahogany Cherry, Walnut	.12	.55

DRY COLORS.

No. FE710.	Weight of bbl.	In bbl. lots per lb.	Less Quantities per lb.
Golden Wash Ochre	400	$0.01	$0.02
Rochelle Ochre	400	.01¼	.02
English Golden Ochre		.10	.13
French Ochre	400	.01½	.02
Italian Buff, Light	500	.01	.02
American Venetian Red	350	.01	.01¼
Imperial Venetian Red	336	.01⅜	.02
Cookson's Venetian Red	336	.01⅜	.02
Snow White Wood Filler	400	.01½	.01¾
Silver White Wood Filler	350	.01½	.02
White Mineral Primer	550	.01½	.02
Spanish Brown	350	.01	.02
Chrome Yellow			.15
Chrome Green, No. 1, best		.07	.09
Chrome Green, Dresden		.10	.13
Prussian Blue			.50
Ultramarine Blue, best			.12
Burnt and Raw Umber	350	.05	.06
Burnt and Raw Sienna	350	.05	.06
Red Lead, 25-lb. kegs		.06½	.10
Dark Red Iron Paint	400	.01½	.01¾
Germantown Lamp Black	50	.10	.11

SPECIAL DRY COLORS.

We carry two special dry colors in stock.

No. FE720. Wagon red is a very brilliant color and almost as bright as Vermilion when mixed with linseed oil. Just the thing for wagons and all kinds of farm implements. **Price per lb.. $0.10**

No. FE730. Screen green is a pure green color, very suitable for window screens and screen doors, and is one of the prettiest greens in the dry colors ever put on the market. **Price per lb.. $0.09**

NATURAL WOOD PASTE FILLER.

No. FE740. To be used on open grain wood, such as oak, ash, etc. Should be spread on and wiped off before it entirely hardens, with rough piece of burlap, wiping across grain.

1 to 5 lb. cans, per lb	$0.08½
10-lb. cans, per lb	.07½
25-lb. cans, per lb	.06½

LIQUID WOOD FILLER.

No. FE750. A perfectly transparent filler for use on close grain and soft woods. It fills the pores perfectly and dries hard in a very short time, and leaves a hard, smooth surface for finishing.

1-gal. cans	$1.25
5 and 10-gal cans	1.20
25-gal barrels, per gal	1.15
50-gal.barrels, per gal	1.10

PORCELAIN ENAMEL. For Bath Tubs.

No. FE760. This Porcelain Enamel is guaranteed to resist the action of hot or cold water, steam or moisture in every form. It produces a hard, smooth enamel finish in both tubs and sinks. Also used on walls and wood work of bathrooms. If you wish to finish the outside of the bathtub in a color use the Liquid Enamel Paint. One pint of Porcelain Enamel will give the inside of an ordinary bathtub two coats. Made in white only.

1-gal. cans	$3.00
½-gal. cans	1.55
1-quart cans	.80
1-pint cans	.45
½-pint cans	.25

RADIATOR ENAMELS.

No. FE760. These Radiator Enamels dry with a rich gloss finish and will not chip or mar and are not affected by heat or cold. Are easily applied to radiators, steam pipes, registers and all surfaces exposed to severe heat, and they dry quickly, and always look bright and glossy. Colors, Maroon and Black.

1-gal. cans. each	$1.60
½-gal. cans, each	.85
1-quart cans, each	.45
1-pint cans, each	.25
½-pint cans, each	.18

ALUMINUM ENAMEL.

No. FE770. For Radiators, Registers, Steam Pipes, Gas Ranges, Stoves, Ovens, Lamp-Posts, Letter Boxes, Grates, Ornamenta, Iron Work, etc., etc. A bright silver finish. Is unaffected by heat, cold, or moisture. Easily applied.

1-quart cans, each	$0.95
1-pint cans, each	.50
½-pint cans, each	.30
¼-pint cans, each	.21
⅛-pint cans, each	.12

CREOSOTE SHINGLE STAIN.

Made in Seven shades: Red, Moss Green, Grass Green, Bronze Green, Brown, Slate, Yellow.

No. FE780. These stains impart an artistic and lasting finish to shingled surfaces, and greatly prolong their life, as they have great preservative qualities. The shingles may be dipped or the stain applied with a brush. If brushed on, a gallon will cover 160 square feet one coat, while 1½ gallons will cover the same surface 2 coats. From 2½ to 2½ gallons is sufficient for dipping 1000 shingles, and less than a gallon more is enough for a brush coat after the shingles are laid. Shingles are usually dipped only two-thirds of their length.

1-gallon cans per gallon	$0.70
5 or 10-gallon kegs, per gallon	.65
25-gallon barrels, per gallon	.60
50-gallon barrels, per gallon	.55

ASPHALT ROOF PAINT.

No. FE781. For re-coating prepared roofing of all kinds: one gallon will cover one square of roofing two coats. Will stop leaks and keep the roof in good condition. Can also be used on metal roof.

50-gallon barrels, per gallon	$0.40
25-gallon barrels, per gallon	.45
5 or 10-gallon kits, per gallon	.50

INDURINE WEATHERPROOF

INDURINE

COLD WATER PAINT

A pure mineral paint in dry powder form, requiring the addition of cold water only to be ready for **instant use** Produces a hard, flexible enamel finish, will withstand **great weather exposure,** and will not **rub, scale or crack,** nor will it soften or turn yellow with age.

IT IS ABSOLUTELY FIRE PROOF

It is **the paint** for **factory plants, hospital buildings, shops, elevators, water tanks, boiler** and **engine rooms, dry kilns, bridges** and **trestles, cattle guards, fences,** and **all** classes of outbuildings, or any place where it is desirable to **retard fire** and **decay** and for light and cleanliness.

It is 75 Per Cent Cheaper Than Lead and Oil Paint Creating a saving not only in material, but in labor as well, for **one coat of Indurine** covers better than **two coats of oil paint,** and in most cases only **one coat** is necessary to get first-class results.

Can be used over oil paint to good **advantage,** and makes a first-class **priming coat,** as oil paint can also be applied over it; in fact it is an **excellent filler** for old **weather-beaten surfaces,** which consume an immense amount of paint, as **one coat of Indurine** will effectively stop the greatest **suction.** It will **resist dampness** in rooms to a remarkable degree if the surface is dry when it is applied and has a chance to dry out and harden itself before being exposed to the moisture.

Can be used to the best advantage on **stone, brick, wood,** and **over oil paint,** or, in fact, on any good firm surface. If you should wish to apply **Indurine** over oil paint, all loose particles should be carefully removed. If **Weatherproof Indurine** is to be applied to a surface that has been whitewashed, the latter should be removed, as the **binding qualities** are so great it would have a tendency to draw off the weaker materials, the same as oil paint would.

It is **an ideal paint for inside work** as it is **white as snow,** is a great **dirt killer,** and positively **will not rub, scale or crack,** nor will it turn yellow with age. It can be used over old whitewash if the loose particles are removed before applying.

One pound of Indurine will cover from 35 to 75 square feet according to condition of surface.

CAN BE APPLIED BY ANYONE WITH ANY KIND OF BRUSH

WHITE

	Per lb.		Per lb.
Weatherproof	$0.07	Extra Inside	$0.06

COLORS

	Per lb.		Per lb.
Weatherproof, Nos. 30, 62, 57, 36	$0.08	No. 37	$0.08¾
Nos. 54, 35, 64	0.08¼	No. 38	0.09
Nos. 31, 32, 56, 33, 34, 65	0.08½	No. 58	0.09¼

Put up in bbls. about 400 lbs.; half bbls. 200 lbs. **Note increase in price per lb. when ordered in smaller quantities.** Kegs (½c over above prices), 100 lbs. and 50 lbs. Also in cases containing 20 5-lb packages; put up in this way, 1c per lb. additional over above prices to cover expense of labor, package, etc. **Not sold in less than 5-lb packages.** Full directions with each order.

We especially recommend this article for all around farm and factory purposes.

COLOR CARD SHOWING 32 COLORS SENT UPON REQUEST.

PAINT AND KALSOMINE BRUSHES.

CHISELED VARNISH BRUSHES.

No. 1 B. Black Chinese Bristles, cement set, metal bands, black enamel handles.

Size, inches....	1	1½	2	2½	3
Price, each.....	5c	8c	11c	14c	18c

VARNISH BRUSHES.

No. 2 B. Extra Thick, Soft Elastic Varnish Brush, Chinese bristles.

Size, inches....	1	1½	2	2½	3
Price, each.....	11c	16c	20c	31c	40c

WALL BRUSHES.

No. 3 B. Wall Brushes, single thick black bristles, metal bound.

Width, inches.	2½	3	3½	4	4½
Length of Hair	2	2⅛	2⅜	2½	2¾
Price, each....	15c	18c	21c	28c	30c

WALL BRUSHES.

No. 4 B. O. K. Wall Brush, nickel bound, imitation rosewood handle, elastic Chinese bristles, full center brush, superior in elasticity and durability.

Width, inches....	3	3½	4
Length of Hair..	3¼	4	4¼
Price, each.....	75c	$1.00	$1.15

PAINT BRUSHES.

No. 5 B. Paint Brush, nickel bound, imitation rosewood handle, flat Chinese bristles, excellent for either varnish or paint, and is well adapted for inside painting. A full center brush.

Width, inches..	3	3½	4	4½
Length of Hair.	2¾	3	3¼	3½
Price, each.....	38c	50c	60c	75c

STUCCO BRUSHES.

No. 6 B. Patent Stucco Wall Brush, leather bound, imitation rosewood handle, made of superior quality black Chinese bristles, prepared with special care, double nailed with narrow leather band.

Width, inches...	3	3¼	4
Length of Hair..	4	4¼	4½
Price, each.....	90c	$1.20	$1.50

STUCCO BRUSHES.

No. 7 B. Stucco Brush, leather bound, best brush manufactured, selected Chinese Hong Kong bristles, leather bound, imitation rosewood handles, full length and weight, extra heavy.

Width, inches...	3	3½	4	4½
Length of Hair.	4¼	4½	4¾	4¾a
Price, each.....	$1.25	$1.50	$1.75	$1.85

WHITE WASH BRUSHES.

No. 8 B. Anchor White Wash Brush, metal bound, white bristles outside, white mixed middle, extra good value.

Width, in..	6½	7½	8½	9
Lh. of Hair	2⅜	2⅝	2⅞	3⅛
Price, ea...	22c	25c	30c	35c

KALSOMINE BRUSHES.

No. 9 B. Kalsomine Brushes, metal bound, natural wood finished handles, white bristle casing, white imitation bristle center, excellent medium quality.

Width, inches...	6	7	8
Length of Hair..	3¾	4	4½
Price, each.....	55c	75c	90c

KALSOMINE BRUSHES.

No. 10 B. Standard Kalsomine Brushes, brass bound, natural wood finished handles, best yellow Okatka bristles, long stock.

Width, inches..	6	7	8
Length of Hair.	4⅞	5⅛	5½
Price, each.....	$2.50	$3.00	$3.75

FLAT DUSTERS.

No. 11 B. Painter's Flat Dusters, special style round polished handles, best black Chinese bristles. This brush will not roll off on the ground.

Width, inches.....	4⅝
Length of Hair.....	4
Price, each.....	90c

We have a complete line of House and Barn Paints.

WASHING MACHINES FROM RECEIVERS' SALE.

These Machines are the Greatest Labor, Time and Clothes Saver Ever Invented. No Steam, Damp Walls or Wet Floors. Somewhat Shopworn, But in Good Operative Condition.

LOT No. 39.

This wonderful invention makes washday a pleasure, washing a whole tub full of clothes in less time than a single garment can be washed on a washboard in the old way and with almost no work at all. It runs so easy that a little child, eight or nine years old, can run it as easily as a grown person, **in fact it almost runs itself** Best of all, it washes the clothes to snowy whiteness without rubbing or wearing. It does not tear off buttons, and does not fray the edges. Washes heavy rugs and blankets just as easy as hand-

Makes Washing a Pleasure. It Will Wash Anything

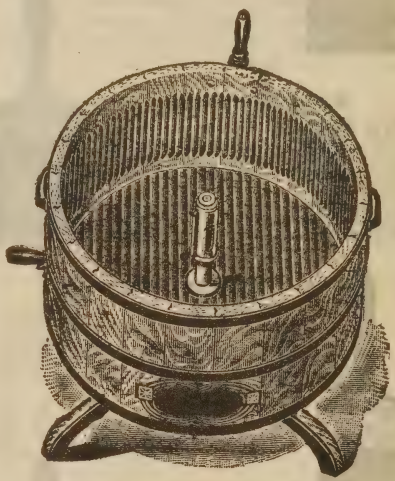
kerchiefs and napkins. Does not let the foul steam escape and does not slop the floor, **It is an entirely new invention** and operates on a new principle, washing clothes, not by dragging them back and forth through the water, as other washing machines do, **but by forcing the boiling suds through and through every mesh and fibre of the clothes in a perfect cataract.**

You can sit in an easy chair and swing it just as easy as standing. The heavy steel motor spring underneath the tub does almost all the work. You grasp the operating handle and swing it in either direction. The motor spring stops it and swings it back the other way with a quick reverse movement The tub travels one way about one-third of a revolution and the motor spring swings it back again. Back and forth the tub swings with just a little help from you at each swing. You can swing it fast or swing it slow, just as you like it. All the while the great cleansing currents of boiling water are forced through and through every fibre and thread of the clothes inside the tub by centrifugal force and suction and washes them to a snowy whiteness.

THE TUB is generously large in size, measuring 23½ by 12 inches and is built with the large end down, so you have the most room where you need it, at the bottom where the water and clothes are. It is built thoughout of selected red Louisiana cypress, which grows in the southern swamps, and will resist the action of water acid, and chemicals better than any other wood known to man. The tub is corrugated on both the sides and on the bottom inside. very much like a washboard These corrugations help to clean the clothes that come in contact with them by gently rubbing them. This rubbing is not the hard, violent kind that they usually get on the washboard, as the clothes are swimming in the boiling water and are only gently stirred by the motion of the agitator and tub. The boiling currents forced through the clothes do practically all the cleaning. The heavy iron brace is fastened securely to the bottom of the tub on the outside which prevents any tendency of the bottom of the tub to warp. Into these braces are scewed the sockets in which the agitator runs and as the top is above the water line a perfect water tight joint is secured. The machine rests upon three heavy hardwood legs securly bolted to heavy iron sockets and will stand on any floor no matter how uneven. It is finished throughout in the natural color of the wood with one coat of filler and two coats of varnish. All screws, nails and iron parts inside the tub are heavily galvanized, making rust spots on the clothes impossible.

THE STAVES are cut from 1 1-8 inch stock and finished full ⅞ inch thick, making a much stronger tub than in other washing machines. The tub is bound with three steel hoops 1¼ inches broad and of ample strength and owing to its-shape, they can never fall off. Notice in this illustration how the staves are tongued and grooved together at every joint. Then, too, every joint is set in water proof cement, the bottom is also set in waterproof cement and at the point where the center post passes up through the bottom of the tub it is screwed down solid upon a heavy water proof gasket, making a tub of the kind that doesn't leak.

THE COVER does not need to be heavy, because it is not intended to support five to twenty-five pounds of cast iron gear wheels as in other washers. It simply keeps the steam in the tub and helps to hold heat in the water It is made of light material and cross-braced underneath, so that it has ample strength and will not warp. It is so light that a little child can handle it without effort. Removing the cover and the rubber you have the tub open the full width of the top so that you can attach a clothes wringer to any convenient place on its rim and after setting the brake underneath, which holds the tub stationary, wring out the clothes.



THE AGITATOR OR RUBBER sets down upon the center post which passes up through the bottom of the tub and adjusts itself automatically for any quantity of cloth from a few pieces to a tub full. It is built of a clear two-ply lumber with hardwood cleats radiating out from the center on the underside and is provided with perforations to permit the water to pass through it freely. A rustless galvanized cleat, fastened to the agitator by screws, prevents warping and forms the bearing for the center post. It is also provided with two galvanized steel lifting rings for raising it out of the machine. The agitator does not drag the clothes, but gently stirs and turns them, so that every part of them is subjected to the cleansing currents of boiling water which passes through and through them, not once or twice, but hundreds of times, washing them cleaner and better than you could do it by hand and washing a tub full in less time than it would take to wash a single piece on the washboard.

PRICE EACH - - - - - $3,00

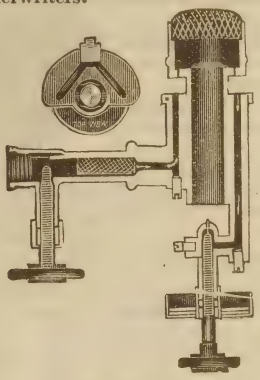
THE BYSTROM GASOLINE LAMPS

With the Improved Bystrom Gravity Burner

Are unequaled for design, finish, mechanical construction and operation. The most complete line on the market. For use in homes, stores, churches, halls, factories and all places where a superior light is required at a small cost.

Gives three times the light at one-fifth the cost of a kerosene lamp. **Permitted by the National Board of Fire Insurance Underwriters.**

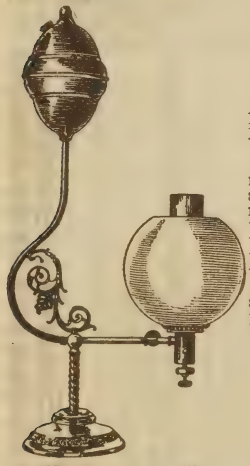
No. 2. Fancy Brass Harp Lamp. Price, **$4.75**



Sectional View.

A—Wire Gauze. AA—Inside Wire Gauze. B—Needle Valve. C—Cut-off. BB—Cut-off Packing Nut. E—Generating Cup.

No. 1. Brass Harp Lamp. Price **$4.00**

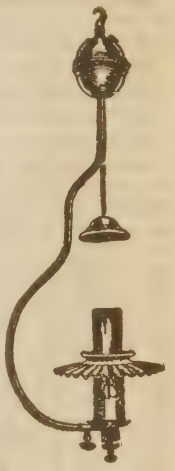


No. 85. The perfect Reading Lamp, new design. Triple nickel-plated. Price **$4.10**

The **BYSTROM BURNER** is constructed on correct principles, and is one on which you can rely. We are furnishing a great many to equip fixtures of other manufacturers where their burners have proven worthless. We are the only manufacturers who are willing to do this and guarantee them to give satisfaction. It works, and works perfectly, all the time. No uncertainty.

If you have a lamp not giving good results, send for a Bystrom Burner, with gallery, and you will be pleased.

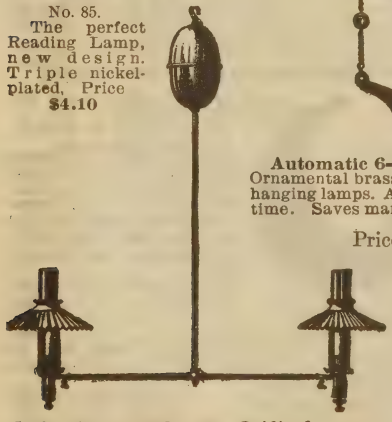
Burner and Gallery, $1.25



No. 20. Pendant Lamp. Oxidized copper finish. Price **$2.50**

Automatic 6-Foot Spring Extension. Ornamental brass. Should be used on all hanging lamps. A great convenience. Saves time. Saves mantles.

Price, each $2.00



No. 30. Two-light fixture. Oxidized copper finish. Price **$4.75**

No. 40. Brass two-light fixture. Price **$5.00**

Ask for Our List of Second Hand Gas Fixtures.

PREMIER CIRCULAR SAWS

SOLID AND INSERTED TOOTH.

Solid Tooth Circular Saws.

Lot FE700—Rip Saws.
Lot FE701—Cross Cut Saws.
Our Premier Saws are made of the very best quality **Jessop Saw Steel** and are properly oil tempered.

Each Saw is fully guaranteed to be perfectly true or as true as it is possible to make them: free from all flaws and material defects. We will replace any saw if found not as we represent it if returned any time within ninety days from date of shipment.

When ordering Observe the following:

1st. State diameter of saw.

2nd. State whether Rip or Cross Cut is wanted by using lot numbers shown above there can be no possible chance of error.

3rd. Size of hole in saw.

4th. Whether saw is for right or left hand mill.

5th. Number of teeth preferred.

6th. Speed of saw.

This Information will enable us to fill your order immediately and furnish a saw that is specially adapted to your work.

Diameter, inches.	Thickness, guage.	Size of hole, inches.	Price, each.	Extra for each additional gauge heavier.	Price for beveling saws, per gauge.	Extra for setting and sharpening, if rip saw.	Extra for setting and sharpening, if cross-cut saw.
4	19		$ 0.40	$0.02	$0.07	$0.13	$0.18
5	19		.55	.02	.08	.14	.20
6	18		.60	.03	.09	.15	.23
7	18		.74	.03	.10	.17	.25
8	18		.88	.04	.11	.18	.28
9	17		1.10	.05	.12	.20	.30
10	16	1	1.30	.06	.14	.23	.33
11	16	1	1.52	.07	.15	.24	.35
12	15	1	1.62	.08	.18	.25	.38
14	15	1	2.00	.11	.20	.30	.43
16	14	1	2.40	.12	.25	.33	.50
18	13	1	3.00	.15	.30	.35	.53
20	13	1	3.55	.17	.35	.40	.60
22	12	1	4.35	.25	.40	.45	.65
24	11	1	5.20	.28	.45	.50	.75
26	11	1	6.00	.33	.50	.55	.80
28	10	1	6.80	.40	.60	.60	.90
30	10	1	7.50	.45	.65	.65	1.05
32	10	1	8.75	.50	.70	.70	1.00
34	9	1	10.00	.60	.80	.80	1.20
36	9	1	11.00	.70	.85	.85	1.30
38	9	1	12.00	.90	.95	.95	1.40
40	9	2	13.50	1.00	1.00	1.00	1.50
42	8	2	14.70	1.25	1.10	....	1.60
44	8	2	17.50	1.50	1.20	....	1.70
46	8	2	21.00	1.75	1.30	....	1.80
48	8	2	26.00	2.00	1.40	....	1.90
50	7	2	29.50	2.25	1.50	....	2.05
52	7	2	35.00	2.50	1.65	....	2.20
54	7	2	39.50	3.00	1.75	....	2.35
56	7	2	45.00	3.50	1.90	....	2.50
58	7	2	50.00	4.00	2.05	....	2.65
60	6	2	57.00	4.50	2.20	....	2.80
62	6	2	64.00	5.00	2.35	....	3.00
64	6	2	70.00	6.00	2.50	....	3.15
66	6	2	80.00	7.50	2.75	....	3.30

Inserted Tooth Saw

Premier Inserted Tooth Circular Saws manufactured from same high grade steel as our solid tooth saws and sold under the same guarantee.

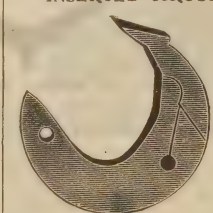
On all orders for inserted tooth saws it is necessary for us to have the following specifications: Size of saw, size of mandrel hole, number of teeth wanted in saw, style of tooth, size of pin holes, distance of pin holes from center to center, gauge of saw at center, gauge at rim, speed, and whether to cut hard or soft, wood, and right or left hand,

One wrench, two extra shanks and 100 points furnished with each saw 46 inch in diameter and less. One wrench, 6 extra shanks and 200 extra points furnished with each saw 48 inch in diameter or over.

Diameter, inches.	Regular Gauge	No. Teeth in Saw	Price, with No. 2, 3 or 4 Teeth
16	11	12	$11.00
18	11	14	12.00
20	11	16	14.00
22	11	18	15.75
24	11	20	17.50
26	10	22	19.00
28	10	24	21.00
30	10	24	24.00
32	9	28	25.50
34	9	28	28.00
36	8	30	31.00
38	8	32	33.00
40	8	34	36.00
42	8	34	38.00
44	7 or 8	36	43.00
46	7 or 8	36	46.00
48	7 or 8	24 to 40	51.00
50	7 or 8	24 to 42	57.00
52	7 or 8	24 to 44	68.50
54	7 or 8	24 to 46	76.40
56	7 or 8	30 to 48	88.00
58	7 or 8	30 to 50	97.25
60	6 or 7	30 to 52	106.50
62	6 or 7	30 to 52	115.75
64	5 or 6	30 to 54	127.35
66	5 or 6	30 to 56	138.90
68	5 or 6	30 to 56	150.50
70	4 or 5	30 to 58	164.40
72	4 or 5	30 to 60	180.60

Inserted tooth saws will be furnished one gauge lighter or heavier if desired without extra charge.

INSERTED CIRCULAR RIP SAW TOOTH.



No. 1 Chisel Teeth for Inserted Tooth Saw is most adapted for bolting and gang edging saws.
Price of points, ea. . $0.03
Per 100. . . . . 2.65
Price of holders, ea. . 0.24
Per 100. . . . . 21.90

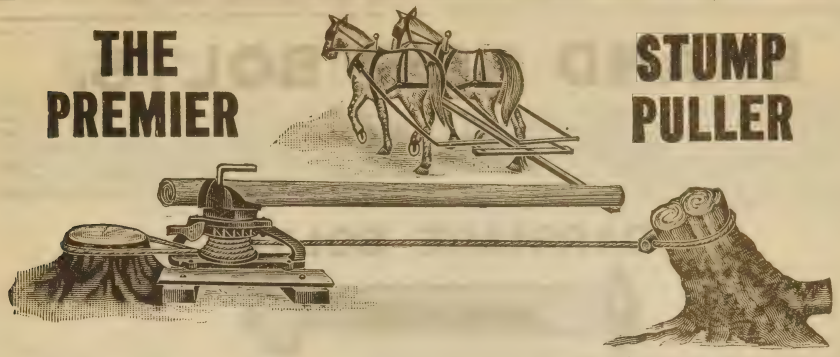
Our No. 2 Chisel Tooth for Inserted Tooth Saw is designed for heavy feeds.
Price of points, ea. . . $0.03
Per 100. . . . . 2.65
Price of holders, ea. 0.24
Per 100. . . . . 21.90

No. 3 Chisel Tooth for Inserted Tooth Saw is mostly used in hard woods and is a good tooth where both hard and soft wood is cut.
Price of points, per 100. . . . . $ 2.65; Each. $0.03
Price of holders, per 100. . . . . 26.25; Each. .28

Our No. 4 Chisel Tooth for Inserted Tooth Saw is adapted to soft, pitchy lumber or where a large amount of throat room is desired.
Price of points, per 100. . . . . $ 3.06; Each. $0.03½
Price of holders, per 100. . . . . 33.25; Each. .35

For saws fitted with No. 1 teeth add 10 per cent. to prices above.

THE PREMIER STUMP PULLER



This Stump Puller is the very latest style of the grooved-drum type of machine, carrying the very latest improvements, both in construction and labor-saving features. A mere glance at its construction will show the wonderful simplicity and superior design, which, together with the extremely high quality of all materials used in their making, prove them positively the best and most successful Stump Pullers in the world, and the lowest price machine sold today.

THE MAIN FRAME is constructed on new lines, giving it the rigid, strong and solid qualities lacking in other machines of this type. The heavy anchor hook provided here is meant to prevent the machine from tipping, and there is positively no chance of its ever breaking.

THE DRUM is of large diameter and grooved so that the rope winds from bottom to top.

THE SAFETY RATCHET is made to hold every inch your team can pull.

THE ROPE used on these machines is the best English steel rope made, and has done much to place this machine in popular favor.

THE SWEEP CAP is of the very latest design, and made specially strong for this machine.

THE SWEEP LIFT is made of a steel angle-bar working in an eccentric, and is built solely for this machine.

Our ropes are all fitted with properly fitting Hooks and Couplers that add to the life of the rope. While we list our machines with pulling ropes 50 and 75 feet in length, we can furnish them in any desired length. When ordering extra rope you must allow extra price for the same, as well as extra price for the fittings. We make no charge for placing the fittings on the rope.

OUR GUARANTEE: We guarantee this machine for one year and will replace free all defective parts during that time.

DESCRIPTIVE PRICES.

No. 1 Stump Puller, suitable for use by hand or for one horse on an 8-foot sweep. Furnished with a 6-foot anchor loop and 50 feet of ⅝-inch Special steel pulling cable. Guaranteed to stand a strain of 45,000 pounds when a double power pulley is used. Weight, 300 pounds. Price..... $17.25

No. 2 Stump Puller, suitable for use with one horse on a 10-foot sweep. Furnished with an 8-foot anchor loop and 50 feet of ¾-inch Special steel pulling cable. Guaranteed to stand a strain of 70,000 pounds where a double power pulley is used. Weight, 400 pounds. Price..... 23.50

No. 3 Stump Puller, suitable for use with two horses on a 12-foot sweep. Furnished with a 10-foot anchor loop and 50 feet of ¾-inch highest grade English steel pulling cable. Guaranteed to stand a strain of 100,000 pounds when a double power pulley is used. Weight, 600 pounds. Price.. 43.35

No. 4 Stump Puller, suitable for use with two horses on a 14-foot sweep. Furnished with a 12-foot anchor loop and 75 feet of ⅞-inch highest grade English steel pulling cable Guaranteed to stand a strain of 140,000 pounds when a double power pulley is used. Weight, 900 pounds. Price.. 60.85

No. 5 Stump Puller, suitable for use with two horses on a 16-foot sweep. Furnished with a 12-foot anchor loop and 75 feet of 1-inch highest grade English steel pulling cable. Guaranteed to stand a strain of 180,000 pounds when a double power pulley is used. Weight, 1,000 pounds. Price. 69.50

No. 6. This machine is suited for use with two horses on 18 ft. sweep. Is recommended for pulling stumps from 18 to 36 inches in diameter. If used with our No. 3 Pulley Block, double the power can be obtained. We recommend this particular machine to our customers who have a great amount of work to do, even though their timber is of medium size, as the great power of the machine makes it possible to pull medium sized timber without the use of a Pulley Block. Is furnished complete with 14 ft. Anchor Loop and 75 feet of 1¼ in pull rope. Shipping weight about 1,350

ATTACHMENTS.

English Stump Puller Steel Wire Rope.

Diameter....	¼ in.	⅜ in.	½ in.	⅝ in.	1 in.	1¼ in
Price per ft.	$0.10	$0.15	$0.20	$0.25	$0.30	$0.35

The price of the rope does not include the fittings, but we make no extra charge for the labor of attaching the fittings to the rope.

When ordering extra cables or extra cable for either machines or attachments be sure to order the same size and kind of cable regularly supplied with the machine or attachments. Always order one hook for each cable and two clips for each extra cable ⅝-inch or less in diameter and three clips for each extra cable 1-inch or more in diameter. These will be furnished at the following prices.

Hook for	⅝	inch	Cable.	Price each.....		$1.25
"	"	¾	"	"	"	1.60
"	"	⅞	"	"	"	1.90
"	"	1	"	"	"	2.25
"	"	1⅛	"	"	"	2.85
Clip	"	⅝	"	"	"	.15
"	"	¾	"	"	"	.19
"	"	⅞	"	"	"	.24
"	"	1	"	"	"	.29
"	"	1⅛	"	"	"	.34

TAKE-UP FOR SLACK ROPE.

We advise the use of a take-up when your cable is over 50 feet long or when pulling a stump on a short hitch; as you should not wind more than one layer of cable on the drum while working. The take-up practically doubles the amount of work you can do and makes it possible to pull a number of stumps at one setting.

No. 1 for any sizes of rope up to ¾-inch..... $3.00
No. 2 for any sizes of rope up to 1-inch..... 4.00
No. 3 for any sizes of rope up to 1¼-inch..... 5.00

DOUBLE POWER PULLEYS.

We advise the use of this pulley on all work over 8 inches in diameter. Price includes the pulley with able, cone hook and necessary clips.

No. 1 for No. 1 and 2 machines 10 foot ⅜ in. hitch..... $ 7.75
No. 2 for No. 3 and 4 machines 12 foot ½ in. hitch..... 10.00
No. 3 for No. 5 machines 15 foot 1 in. hitch... 12.50

ROOT HOOKS.

Made in two Sizes.

No. 1, weight 30 lbs.... $3.00
No. 2, weight 60 lbs.... 6.00

BRAND NEW BOLTS.

We purchased from a **large Bolt manufacturer, now in the hands of Receivers,** a complete stock of Carriage and Machine Bolts. They are absolutely first class in every particular, just as good and as clean a stock as you would buy from any reputable manufacturer or jobber. They are put up regularly in packages. At the present time this stock is about complete as you will find anywhere. and if you are **alive to such a saving opportunity** as we offer you, you will certainly favor us with your order at once.

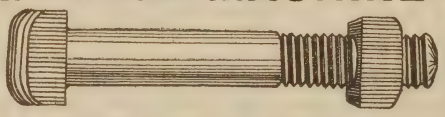
In view of the advancing iron markets we are making our quotations subject to prompt acceptance and market changes. Send us your order to-day.

CARRIAGE BOLTS.

PRICE PER 100 BOLTS.

Length Inches.	1-4	5-16	3-8	1-2	5-8	Length Inches.	1-4	5-16	3-8	1-2	3-4
1½	.27	.32	.42	1.00	1.73	4½	.40	.49	.70	1.29	2.18
1¾	.28	.34	.45	1.00	1.73	5	.43	.51	.73	1.36	2.26
2	.29	.36	.48	1.00	1.73	5½	.45	.54	.78	1.44	2.41
2¼	.30	.37	.50	1.00	1.73	6	.47	.57	.82	1.51	2.52
2½	.32	.39	.52	1.00	1.73	7	.66	.76	1.12	1.66	2.75
2¾	.33	.40	.54	1.03	1.79	8	.70	.83	1.22	1.80	2.97
3	.35	.41	.57	1.07	1.84	9	.73	.90	1.33	1.95	3.30
3¼	.36	.42	.60	1.11	1.90	10	.78	.95	1.44	2.09	2.42
3½	.37	.44	.62	1.14	1.96	11	.84	1.03	1.54	2.24	3.65
3¾	.38	.45	.63	1.18	2.01	12	.99	1.10	1.65	2.39	3.88
4	.39	.47	.65	1.22	2.07	...	...	....	....	....	....

SQUARE HEAD MACHINE BOLTS.



PRICES PER 100 BOLTS.

Len'th Inches.	1-4	5-16	3-8	1-2	5-8	3-4	L'gth In.	1-4	5-16	3-8	1-2	5-8	3-4
1½	.45	.54	.65	1.05	1.60	2.15	8	.82	1.08	1.35	2.10	3.00	4.00
2	.48	.58	.70	1.15	1.65	2.30	9	.88	1.15	1.45	2.25	3.30	4.40
2½	.51	.60	.73	1.25	1.75	2.45	10	.93	1.20	1.50	2.40	3.50	4.75
3	.53	.64	.76	1.30	1.90	2.75	11	.97	1.30	1.60	2.55	3.75	5.00
3½	.55	.67	.83	1.40	1.95	3.00	12	1.04	1.35	1.70	2.75	4.00	5.30
4	.58	.71	.86	1.50	2.10	3.10	14	....	....	1.85	3.00	4.40	6.00
4½	.66	.81	1.00	1.55	2.25	3.20	16	....	....	2.00	3.20	4.80	6.50
5	.68	.86	1.05	1.65	2.40	3.30	18	....	....	....	3.60	5.30	7.10
5½	.70	.90	1.10	1.70	2.50	3.40	20	....	....	....	4.00	5.80	7.70
6	.73	.92	1.15	1.80	2.60	3.50	22	....	....	....	....	....	8.30
7	.77	1.00	1.25	1.90	2.80	3.85	24	....	....	....	....	....	8.60

ROUND AND SQUARE HEAD BOTS.

No. 1. Mixed Bolts, all kinds square and round heads. Sizes ranging from 3-8 to 1 inch diameter. Lengths ranging from 1 to 20 inches. Brand new.
In lots of 50 lbs. Per lb 4c
In lots of 100 lbs. Peralb 3 1-2c

No. 2. New Bolts mixed, from 1-4 to 1-2 inch diam. Lengths up to 18 in. In lots of 100 lbs.
Per lb 4c
In smaller quantities 4 1-2c

No. 4. Bolts bought at Underwriters' Sale, damaged by water, somewhat rusty but good for general use. All sizes and all kinds mixed. In 100 lb. lots. Per lb 3c
In smaller quantities 3 1-2c

No. 5. Second hand Bolts, from the various expositions and wrecking jobs. Sizes 5-8 to 1 inch. Lengths 5 to 24 inches. Per 100 lbs.. **$2.00**
Per 500 lbs **8 00**

CAST IRON WASHERS.

All In Good Condition.

No.	Quantity.	Size of Hole.	Price, each
698	2000		$0.01
699	1600	3-4	0.1 3-4
709	1200	7-8	0.2 1-2
701	1300	1	0.4

Send For Our New Furniture Catalog.

SPECIAL SALE OF BOLTS.

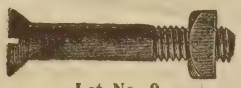
THE FOLLOWING BOLTS ARE ABSOLUTELY FIRST CLASS IN EVERY WAY, AND ARE PUT UP IN PACKAGES REGULARLY. THE PRICE WE OFFER THEM AT IS EXTREMELY LOW—MUCH LESS IN FACT THAN COST OF PRODUCTION. BUY TO-DAY. TO-MORROW MAY BE TOO LATE.

PLOW BOLTS

Lot No. 8.

Quantity.	Diameter, Inches.	Length, Inches.	Price, Per 100.
200	5/16	3/4	$0.66
300	"	1 1/4	.68
500	"	3	.96
2,250	3/8	3/4	.75
2,700	"	1	.75
600	"	1 1/2	.75
10,650	"	1 1/4	.78
950	"	1 3/8	.79
900	"	1 1/2	.81
30,400	"	1 5/8	.83
2,700	"	1 3/4	.84
5,500	"	2	.90
1,900	"	2 1/4	.95
1,850	"	2 1/2	1.00
350	"	3	1.08
200	"	3 1/2	1.16
150	"	4	1.24
250	"	5	1.30
300	7/16	1 1/4	1.34
150	"	1 3/8	1.20
100	"	1 1/2	1.20
350	"	1 3/4	1.25
1,050	"	2	1.30
1,000	"	2 3/4	1.40
900	"	3	1.50
650	"	4	1.60
1,000	1/2	1 1/4	1.44
50	"	1 1/2	1.50
11,300	"	2	1.60
250	"	4	2.30

FLAT HEAD STOVE BOLTS.



Lot No. 9.

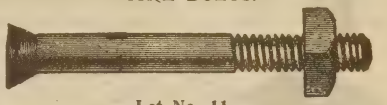
Quantity.	Diameter, Inches.	Length, Inches.	Price, Per 100.
1,800	3/16	3/8	$0.09½
3,100	"	1 1/4	.12
2,900	"	1 1/2	.14
11,000	"	1 3/4	.15
4,900	"	2	.17
7,300	"	2 1/4	.18
6,600	"	2 1/2	.20
500	"	2 3/4	.21
2,200	"	3	.22
1,800	1/4	1/2	.15
1,100	"	5/8	.15
900	"	3/4	.15
2,700	"	1 1/8	.18
6,500	"	1 1/4	.20
1,000	"	2 1/4	.22
1,500	"	2 1/2	.25
200	"	3	.28
800	"	3 1/2	.30
4,500	"	1 1/2	.20
500	5/16	5/8	.21
3,700	"	1	.22
300	"	1 1/4	.29
1,500	"	1 1/2	.28
1,300	"	2	.30
2,600	"	2 1/4	.31
500	"	2 1/2	.33
1,000	"	3	.36
1,000	3/8	1/2	.38
1,400	"	1	.40
200	"	2 1/2	.48
3,000	"	1 1/4	.38
1,900	"	2 1/2	.50

ROUND HEAD STOVE BOLTS.

Lot No. 10.

Quantity.	Diameter, Inches.	Length, Inches.	Price, per 100.
400	5/32	1 1/4	$0.12
5,500	3/16	2	.17
5,600	"	2 1/4	.18
5,200	"	2 1/2	.20
200	"	2 3/4	.21
300	"	3	.22
500	"	5	.38
1,000	1/4	3/8	.15
1,600	"	7/8	.16
100	"	1 1/4	.18
1,100	"	1 3/8	.20
1,850	"	1 5/8	.20
900	"	2 1/8	.22
100	"	2 3/4	.25
3,900	"	3	.28
400	"	3 1/2	.32
200	"	4	.34
400	"	4 1/2	.40
400	"	5	.45
1,000	5/16	1 1/4	.30
700	"	7/8	.24
200	"	1 1/2	.28
700	"	1 3/4	.29
200	"	2	.30
500	"	3	.36
400	"	2 3/4	.35
500	3/8	3/4	.37
250	"	1	.40
900	"	1 1/4	.42
500	"	3	.54

TIRE BOLTS.



Lot No. 11.

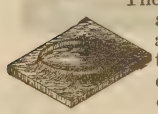
Quantity.	Diameter, Inches	Length, Inches.	Price, Per 100
1,700	1/8	1	$0.15
1,300	"	2	.17
1,600	"	2 1/4	.18
5,200	3/16	1 1/2	.15
2,400	"	3/4	.16
76,150	"	1 1/4	.16
8,300	"	1 1/2	.16
11,100	"	2 1/4	.19
200	"	2 1/2	.20
3,900	"	3	.22
2,700	"	3 1/4	.24
4,400	"	3 1/2	.25
200	1/4	9	.50
2,000	"	4	.39
2,300	"	7/8	.19
4,300	"	1	.19
28,500	"	1 1/4	.19
16,700	"	1 1/2	.20
14,400	"	1 3/4	.23
2,400	"	3 1/4	.35
900	"	4 1/2	.40
1,000	"	4 1/2	.40
1,100	"	2 3/4	.30
300	"	8 1/4	.49
400	5/16	2	.37
200	"	2 1/4	.38
250	"	3	.44
2,700	"	1	.35
550	"	1 1/2	.37
490	"	3/4	.33
200	"	3 1/2	.50
8,350	3/8	1 1/2	.55
9,350	"	1 1/2	.56
200	"	2	.57
200	"	5	.79
100	"	4 1/2	.78
200	"	5 1/2	.90
150	"	6	.95
150	"	5 1/2	.93
200	"	6 1/2	1.00
100	"	7	1.10
250	7/16	7 1/2	1.50
100	"	4	.89
400	"	5	.98

STRUCTURAL IRON MATERIAL

When you need any structural iron material, do not purchase until you have given us an opportunity to figure with you. Our dismantling operations are of a very large character, and it is but natural that our stock of such material is extremely heavy. Anything in this line can be had of us on short notice and at a very low price. Special Work—cutting to length, punching and iron work of any kind—is given close attention. Send us your diagrams and blue prints for our estimates. **Quick Delivery and Low Prices.**

TUBULAR COLUMNS.

There is a growing demand for a low price iron tubular column. We are now prepared to furnish a column of this kind which will meet with the various requirements. We furnish these tubular columns made of standard pipe, also of light tubing. The columns made of the light tubing are generally used where it is intended to fill them with concrete. A column can be filled with concrete at a very small expense and when so filled they are stronger than any cast iron column manufactured. The standard pipe columns can be treated in the same manner, although where it is intended that they be filled with concrete, the light tubular column will answer just as well as apipe column. The light tubular columns are also especially desirable where a light load is to be carried, then of course; it is not necessary to fill them with concrete.



Cap and Base.

In connection with these columns we furnish special recessed cast iron caps and bases. The caps and bases are made of 1 inch flat cast iron plates, on which there is a ring cast, forming a recess, into which the ends of the columns rest forming a very satisfactory and substantial bearing. A bearing of this kind is preferable to threaded flanges being in every sense much stronger. Owing to the fact that columns are required in so many different lengths, we quote prices on the pipe and tubular columns of the various sizes at so much per foot. You will understand that the price quoted on the columns does not include the caps and bases. These will be charged for extra at prices quoted at as follows:

STANDARD PIPE COLUMNS.

Inside Diam.	Outside Diam.	Wgt. per ft.	Price per foot,
3 in.	3½ in.	7½ lbs.	$0.17
3½ in.	4 in.	9 lbs.	.19
4 in.	4½ in.	10½ lbs.	.21
5 in.	5½ in.	14½ lbs.	.30
6 in.	6⅝ in.	18⅝ lbs.	.40
8 in.	8⅝ in.	28 lbs.	.65

LIGHT TUBULAR COLUMNS.

Inside Diam.	Outside Diam.	Wgt. per ft.	Price per foot.
2½ in.	3 in.	3½ lbs.	$0.08
3½ in.	3½ in.	3½ lbs.	.10
3½ in.	4 in.	5½ lbs.	.12
5⅝ in.	6 in.	10 lbs.	.25

TUBULAR COLUMNS.---Cont'd.

SPECIAL RECESSED CAPS AND BASES.

DESCRIPTION.	Size of Plates.	Price per set.
For 3 in. Standard Pipe, or 3 in. and 3½ in. O. D. Casing	8x10 in.	$1.35
For 4 in. O. D. Casing, or 3½ in., 4 in. and 5 in. Standard Pipe	9x11 in.	1.80
For 6 in. Standard Pipe or 6 in. O. D. Casing	10x12 in.	2.25

A set consists of two recessed plates as described

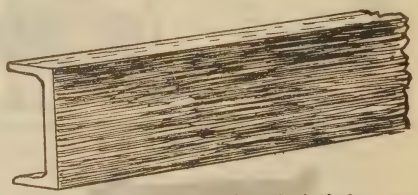
STEEL TRUSSES.

No. 6. Send us sketch of your needs and we will quote low prices.

IRON FENCE.

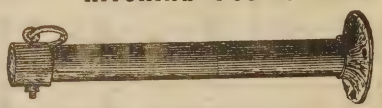
No. 24. Usually on hand. Send us memorandum of your wants.

CHANNELS.



No. 10. Our stock of channels include everything ranging in size from 3 to 25 inch, and lengths from 3 to 40 feet. We cut channels to length and drilled.

HITCHING POSTS.



No. 20. These hitching posts are made with a flange on the bottom, as shown in cut, and can be bolted on to sidewalk. These posts are 2 to 4 inch in diameter and 1, 2, 3, 4 and 5 feet long.

Length, feet.....	1	2	3	4	5
Size.					
2 in. diam. Each	$1.00	$1.10	$1.20	$1.30	$1.40
2½ in. diam.....	1.25	1.40	1.55	1.70	1.85
3 in. diam.....	1.50	1.70	1.90	2.10	2.30
3½ in. diam.....	1.75	1.95	2.15	2.35	2.55
4 in. diam.....	2.00	2.25	2.50	2.75	3.00

FANCY CAST IRON POSTS.

No. 21. We usually have on hand anywhere from 25 to 100 fancy cast iron hitching posts, ornamental. They are usually run from 2½ to 4½ ft. They are in first class condition. Prices on application.

CAST IRON WASHERS.

No. 22. All sizes. Price, 1½ cents per lb.

I BEAMS.

Our stock of I beams include everything ranging from 3 to 24 inches and from 5 to 36 feet in length. We cut beams to length and drill to order. The following partial list will give you a faint idea of our stock. If you are in the market for material of this character you will do well to see us

	Length.	Wt. per foot.	Quantity.
		3″	
Lot No. 18B115	6′	7.5 lbs.	50
		5″	
Lot No. 18B104	5′	12.25 lbs.	103
" 18B104.	6′	12.25 lbs.	210
		6″	
Lot No. 18B111.	6 to 13′	12.25 lbs.	12
Lot No. 18B150.	23′6″	12.25 lbs.	15
		7″	
Lot No. 18B108.	4′8″	15 lbs.	30
		8″	
Lot No. 18B112.	14′4″	18 lbs.	25
" 18B112.	9′4″	23 lbs.	4
		9″	
Lot No. 18B400	20′to22′9″	21 to 25lbs.	96
		10½″	
Lot No. 18B422	24′4″	30 to 35 lbs.	70
Lot No. 18B422	22′to23′6″	30 to 35 lbs.	130
Lot No. 18B422	21′6″	30 to 35 lbs.	200
Lot No. 18B422	15′	30 to 35 lbs.	30
Lot No. 18B110.	7′	21 lbs.	24
Lot No. 18B106.	6 to 10′	25 to 35 lbs.	40
Lot No. 18B225.	20′	30 lbs.	2
Lot No. 18B225.	24′10″	25 lbs.	11
Lot No. 18B225.	26′5″	35 lbs.	2
Lot No. 18B225.	15′	35 lbs.	2
Lot No. 18B225.	21′7″	25 lbs.	3
Lot No 18B228.	14 to 18′	25 lbs.	27
Lot No. 18B229.	25 to 28′	25 lbs.	6
Lot No. 18B231.	12 to 14′	25 to 35 lbs.	36
Lot No. 18B232.	17′6″	30 to 35 lbs.	8
Lot No. 18B109.	8 to 10′	30 lbs.	22
Lot No. 18B151.	15′6″	25 lbs.	2
Lot No. 18B151.	17′4″	35 lbs.	2
Lot No. 18B151.	19′6″	25 lbs.	5
Lot No. 18B151.	21′9″	25 lbs.	3
Lot No. 18B151.	23′5″	25 lbs.	3
		12″	
Lot No. 18B238.	15to22′10″	40 to 50 lbs.	35
Lot No. 18B239.	12 to 12′6″	35 to 40 lbs.	400
Lot No. 18B240.	12	31.5 to 40 lbs.	40
Lot No. 18B241.	12	35 to 40 lbs.	65
Lot No. 18B227.	10 to 12′	40 lbs.	8
Lot No. 18B230.	14 to 17′	31.5 to 40 lbs.	65
Lot No. 18B233.	10′	31.5 to 40 lbs.	45
Lot No. 18B113.	12 to 13′	45 lbs.	30
Lot No. 18B121.	12.5 to 14.5′	40 lbs.	140
Lot No. 18B122.	12′4″	45 lbs.	130
Lot No. 18B123.	21′8″to 23′	31.5 to 40 lbs.	232
Lot No. 18B127.	25′5″	31.5 lbs.	62
Lot No. 18B128.	21′5″	31.5 lbs.	60
Lot No. 18B129.	28′9″	31.5 lbs.	2
Lot No. 18B152.	10′	35 to 50 lbs.	26
Lot No. 18B152.	11′10″to15′6″	40 lbs.	6
Lot No. 18B152.	15′10″	31.5 lbs.	3
Lot No. 18B152.	17′6″to24′4″	40 lbs.	17
Lot No. 18B152.	22′2″to23′6″	31.5 to 40 lbs.	5
Lot No. 18B152.	24′4″	31.5 to 40 lbs.	7
Lot No. 18B403	21′8″	40 to 50 lbs.	135
Lot No. 18B404	24′3″	40 to 50 lbs.	50
		15″	
Lot No. 18B401	30′	42 lbs.	15
Lot No. 18B130.	11′6″to 18′	42 to 75 lbs.	104
Lot No. 18B132.	10 to 15′	42 to 85 lbs.	22
Lot No. 18B153.	14 to 15′	42 lbs.	11
Lot No. 18B153.	16′11″	45 to 55 lbs.	5
Lot No. 18B153.	14′10″to19′8″	50 lbs.	12
Lot No. 18B153.	17′to 22′4″	42 to 60 lbs.	22
Lot No. 18B153.	16′2″to20′10″	50 to 80 lbs.	27
Lot No. 18B153.	18′8″to22′2″	45 lbs.	7
Lot No. 18B153.	22′10″	45 lbs.	1
Lot No. 18B153.	25′	70 to 85 lbs.	23
Lot No. 18B153.	27′3″	60 lbs.	2
Lot No. 18B153.	29′2″	50 lbs.	2
Lot No. 18B134.	20′9″to29′10″	45 to 65 lbs.	7
		18″	
Lot No. 18B154.	24′	55 lbs.	1

I BEAMS.

	Length.	18″ Wt. per foot.	Quantity
Lot No. 18B242.	29′8″	75 lbs.	18
Lot No. 18B242.	29′8″	65 lbs.	36
Lot No. 18B131.	17to18′9″	Ranging in weight from 75 lbs. to extra heavy over 100 lbs. per foot.	
Lot No. 18B133.	12 to 21′	65 to 100 lbs.	15
Lot No. 18B155.	13′	100 lbs.	4
Lot No. 18B155.	18′3″	85 lbs.	1
Lot No. 18B155.	12′11″	95 lbs.	4
Lot No. 18B155.	21′9″	85 lbs.	3
Lot No. 18B155.	20′2″to22′3″	65 lbs.	29
Lot No. 18B155.	24′	85 lbs.	1
		20″	
Lot No. 18B155.	25′6″	65 lbs.	2
Lot No. 18B155.	26′	85 lbs.	1
Lot No. 18B155.	27′6″	90 lbs.	10
Lot No. 18B155.	36′2″	80 lbs.	2
		24″	
Lot No. 18B156.	18′6″	80 lbs.	3
Lot No. 18B156.	22′10″	95 to 100 lbs.	8
Lot No. 18B156.	23′9″	95 to 100 lbs.	31
Lot No. 18B156.	28′11″	80 lbs.	1
Lot No. 18B156.	30′4″	85 lbs.	3

SPECIAL "I" BEAMS

We bought 15 carloads of Steel "I" Beams, in sizes 15, 18, 21 and 24 ins. We can furnish all lengths up to 32 ft. long. They are straight and in fine condition, and we will make an exceedingly low price for prompt delivery. Here's a chance to get immediate shipment of your wants. Let us hear from you.

STEEL RAILS.

No. 1.—10 pieces, 60-lb. rails, 25 feet long. Suitable for relaying.
No. 2.—8 pieces, 25-lb. relaying rails, 20 feet long, 25 lbs. to the yard.
No. 3.—500 feet flat rails, about 25 lbs. to the yard. Punched for spikes.
No. 4.—500 feet of rails from 12 to 20 feet, 25 lbs. to the yard. Can be used for building purposes.
No. 5.—200 feet of steel rails, running in lengths from 10 to 30 feet, 60 lbs. to the yard. Suitable for building purposes.
No. 6.—37 pieces, 27 feet, 60 lbs. to the yard.
No. 7.—20 pieces, 30 feet long, 16 lbs. to the yard. For building purposes.
No. 8.—37 pieces, 20 feet long, 8 lbs. to the yard. Suitable for relaying.
Lot No. 9.—1,000 feet, 8 lbs. to yard.
Lot No. 10.—3,000 feet, 12 lbs. to yard.
Lot No. 11.—4,500 feet, 16 lbs. to yard.
Lot No. 12.—4,000 feet, 20 lbs. to yard.
Lot No. 13.—1,500 feet, 30 lbs. to yard.
Lot No. 14.—2,500 feet, 40 lbs. to yard.
Lot No. 15.—2,000 feet, 45 lbs. to yard.
Lot No. 16.—2,000 feet, 50 lbs. to yard.
Lot No. 17.—5,000 feet, 60 lbs. to yard.
Lot No. 18.— 500 feet, 70 lbs. to yard.

Lot No. 18B101. About 5 ton mixed rails in short lengths up to 12′.

Lot No. 18B107. About 10 ton mixed rails in short lengths from 10 to 13′.

SWITCH STANDS.

Lot No. 18B222. 27 large size Elliot plain upright switch stands with target.

Lot No. 18B222. 6 small size Elliot plain upright switch stands with target.

Lot No. 18B223. 1 Elliot three-throw upright switch stand with target.

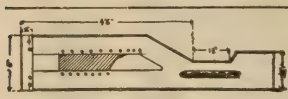
Lot No. 18B223. 11 Elliot ground switch stands with target.

DECK BEAMS.

No. 17.—30 pieces, 9″ deck beams, 26′ long, 4″ flanges, ⅝″ thick.
No. 102.—25 pieces, 9″, 14″ long.
No. 103.—50 pieces, 9″, 12′ long.

LATTICED BEAMS.

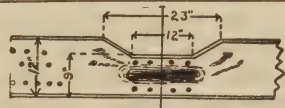
No. 15.—50 pieces, 25′, 19″ latticed beams, build of 3x3″ angles, and ⅜x2¼″ straps, riveted 2′ apart. Plates at each end and in center.



Flange Beams.

No. 101.—110 flange beam, same as cut, made for special purpose, ranging from 30 to 36 feet in length. The main beam is 12 inches high, the end sections are 17 inches high and 4 feet 6 inches in length. The ends are split in center and separated with cast iron plates. Ends reinforced with double angle iron. Weight, 32 lbs. to foot.
No. 102.—25 flange beams, same as above, 12 inches high, 31 feet long, 35 lbs. to the foot.

Indented Beams.



No. 100.—We have 123 beams like cut, 36 feet long, with flange depression 3 feet from each end. This has been accomplished without disturbing in the least the alignment of the beam. The web has been upset just under the depression and appears to have been forged in a special set of dies. Size, 12 inches, length 36 feet, weight 32 lbs. to the foot.
No. 103.—115 same as above, 12 inches high, 31 feet long, 35 lbs. to the foot.

TRUSSES.

53 Roof Trusses, like cut. Base angles 5-16x3x4; remaining angles ¼x3x3.

8 Roof Trusses, like cut. Weight about 970 lbs. Base angles 5-16x3x4; remaining angles ¼x3x3.
No. 10.—Two Roof Trusses similar to cut. Base angles 5-16x3x4″. Remaining members ¼x3x3″. Weight about 970 pounds.
No. 11.—Two Roof Trusses similar to cut. Base angles 5-16x3x4″. Remaining members ¼x3x3″. Weight about 1,170 pounds.
No. 12.—Two Roof Trusses similar to cut. Base angles 5-16x3x4″. Remaining members ¼x3x3″. Weight about 650 pounds.
No. 13.—Twenty-six Roof Trusses similar to cut. Base angles 5-16x3x4″. Remaining members ¼x3x3″. Weight about 970 pounds.
No. 31.—Six Roof Trusses similar to cut. Base angles 5-16x3x4″. Remaining members ¼x3x3″. Weight about 1,170 pounds.
Lot No. 18B212. Two 16′5″ trusses, weighing each about 600 lbs. Truss is 39″ in height, has sides 11′8″ and 5′9″, all outside members being double 2½x2½x5-16 angles and inside, single, same size. See blue print.
Lot No. 18B211. Five 14′7″ trusses, weighing each about 530 lbs. Truss is 33″ in height, has double 2x3x5-16 L's, all other members being 2x2x¼ L's, single. See blue print.
Lot No. 18B204. Five 32′ trusses, weighing each about 1,100 lbs. Truss is 6′ in height, has double basal L's 3x3x5-16, other outside L's being 3x4x5-16 double and inside single 2½x2½x5-16 L's. B. P.

GIRDERS.

Lot No. 18B1. Nine girders, 34′ in length, weight about 7,900 lbs.; girder is made up as follows: Two, 20″ beams, ⅝″ web, 34′ in length, weighing each about 2,445 lbs. Two ¾″ plates 33′ 3″ in length and 14″ in width, weighing each about 1,165 lbs. (These plates are riveted to the beams on their flanges.) Two 3x3x½ angles, 33′ in length weighing each about 300 lbs. Total weight, with rivets, etc., about 7,900 lbs. See blue print.
Lot No. 18B2. Four girders, 34′2″ in length, weight about 8,700 lbs.; girder is made up of ½″ plates, is 33″ in height, 13″ in width and 34′2″ in length, and is re-enforced by 3x3x½ angles. See blue print.
Lot No. 18B3. Eight girders, same as class 2, only 29′10″ in length. Weight about 7,600 lbs. See blue print.
Lot No. 18B4. Ten girders, same as class 1, only 30′ in length and plates 18′ in length, 14″ in width and ½″ thick. Weight about 5,000 lbs. See blue print.
Lot No. 18B5. Six girders, 21′3″ in length. Weight about 2,300 lbs.; girder is made up as follows: Two 15″ L's, 7-16″ web, 21′3″ in length, weighing each about 740 lbs. Two ⅜″ plates, 21′3″ in length, 13″ in width, weighing each about 360 lbs. (These plates are riveted to the channels on their flanges.) Total weight, with rivets, etc., about 2,300 lbs. See blue print
Lot No. 18B213. Four 9-16″ plate girders, 14′11″ in length, 24″ in height, and 7½″ in width. See blue print
Lot No. 18B214. Eight 7-16″ plate girders, 17′9″ in length, 35″ in height and 10¾″ in width. See blue print.
Lot No. 18B215. Four 9-16″ plate girders, 16′9″ in length, 24″ in height and 10¼″ in width. See blue print.
Lot No. 18B216. One plate girder, 32′10″ in length, 40″ in height, and 10¼″ in width. See blue print.
Lot No. 18B217. One plate girder, 39′ in length 42″ in height and 12½″ in width. See blue print
Lot No. 18B218. One plate girder, 36′ in length 33″ in height and 10½″ in width.
Lot No. 18B158. Twelve girders, weighing eac about 1,600 lbs. Vary in length from 20′3″ t 21′10″. Main Section is ⅜x20″ plate. Flanges ar made of 6x⅜″ plates and girder is reenforced betwee main section and flanges by 3x3x⅜ L's. See blu print.

CHANNELS.

	Length.	Wt. per foot.	Quantity.
		2″	
Lot No. 18B116.	10 to 17″	2.7 lbs.	50
		3″	
Lot No. 18B103.	20′	5 lbs.	25
Lot No. 18B235.A	19′10″	4 lbs.	650
		6″	
Lot No. 11B202.	15 to 20′	8 lbs.	15
Lot No. 18B210.	15 to 20′	8 to 12¼ lbs.	Part of 25
Lot No. 18B224.	15 to 25″	10.5 lbs.	95
		7″	
Lot No. 18B201.	20′	9.75 lbs.	125
Lot No. 18B210.	15 to 20′	8 to 12¼ lbs.	Part of 25
		9″	
Lot No. 18B160.	24″5′	13 to 25 lbs.	30
		12″	
Lot No. 18B224.	20′	40 lbs.	6
Lot No. 18B224.	30′	40 lbs.	1
		15″	
Lot No. 18B159.	24′6″	45 lbs.	40
		15″	
Lot. No. 18B162.	36′4″	35 to 40 lbs.	2
Lot No. 18B163.	23′3″	35 to 40 lbs.	1
Lot No. 18B402.	30′	33 lbs.	30

No. 18B104D. 600 feet of 3 in. channels, weighing 7.5 lbs. per foot, in lengths up to 30 feet.
No. 18B104E. 120 feet of 5 inch channels, weighing 9.75 lbs. per foot, in 40 foot lengths.
No. 18B104F. 45 feet of 6 inch channels, weighing 12.25 lbs to the foot, in 25 foot lengths,
No. 18B104G. 50 feet of 7 inch channels, weighing 15 lbs, to the foot, in 25 foot lengths.
No. 18B104H. 20 feet of 12 inch channels weighing 20.5 lbs. to the foot, in 20 foot lengths.

CAST IRON COLUMNS.

Our stock of cast iron columns is quite extensive, ranging in size from 5 to 8 inches in diameter. The following is a partial list of what we have in stock:

Quantity.	Size in Inches.	Feet.	Weight per Foot.
3	5	10	38
4	5	12	38
30	6	10	48
2	6	12-10	48
3	7	10	60
8	7	11-1	60
3	7	11	60
6	7	15	60
3	7	14	60
8	7	13	60
6	8	11-5	80
2	8	9-3	80
2	10	9	100

No. 1.—12 wrought iron columns, 13′ long, built of 4x4″ angle iron, making a column 15″ square. Braced with 8″ plates every 2′. Base top and bottom.

No. 2.—25 columns, 40′ long, 15x17″ square. Made of 15″ channels, latticed. The braces are made of steel plates, 1″ thick, 100 pounds to the foot.

No. 3.—10 cast iron columns, 9′ long, 10″ diameter, built of 1″ metal.

No. 5.—10 cast iron columns, 8″ diameter, 11′ long, built of 1″ cast iron.

No. 8.—17 cast iron columns, 8″ diameter, 37 lbs. to the foot.

No. 9.—21 cast iron columns, 8″ diameter, 36 lbs. to the foot.

Size 4″

	Length	Quan.	Description
Lot No. 18B412	7′6″	50	Have 7″x7″ sq. flanged base.
Lot No. 18B413.	9′	40	Have 8″x8″ sq. flanged base.
Lot No. 18B414.	9′	40	Have 8″ dia. flanged base and 7″ dia. flang-top piec.

Size 5″

Lot No. 18B417	8′2″	25	Have 9″ dia. flanged base and 7″ diam. flanged top peice.
Lot No. 18B409.	13′5″	18	Have 12″ diam. flanged base and 14″x7″ rectangular flanged top.

Size 6″

Lot No. 18B405.	15′	36	Plain with 12″ diam. flanged base.
Lot No. 18B406.	14′8″	25	Plain with 7″x14″ oval base.
Lot No. 18B407.	16′9″	1	Plain with 16″x8″ rectangular flanged base and 12″x12″ square top.
Lot No. 18B411.	13′8″	5	Have 12″diam. base and 14″ x 7″ oval top piece.
Lot No. 18B416.	16′10″	2	Have 13″x12″ sq. flanged base and 8″ x16″ rectungular flanged top piece.
Lot No, 18B418.	10′	3	Have 14″x14″ sq. flanged base and 14″ x8″ top piece.
Lot No. 18B420.	19′	1	Has 12″x8″ rectangular flanged top piece and 12″ diam. flanged base.
Lot No. 18B421.	11′	7	Have 22″x16″ rectangular flanged base and 12″ diam. flanged top piece.

Size 7″

Lot No. 18B415.	13′2″	8	These are ornamental and have 13″x24″ rectangular base.

Size 8″

Lot No. 18B419.	3′	3	Have 10″x30″ rectangular base.

TAPERING COLUMNS.

	Length	Quan.	Description
Lot No. 18B408	8′3″	2	These columns taper from a circumference of 25″ at base to 20″ at top. Have a 21″ flanged sq. base and a 15″ x 12″ rectangular top peice.

BUILT-UP COLUMNS.

Lot No. 18B410. Five columns, made of two 5″ channels, 14′5″ in length, connected by two ⅜″ plates, 8″ In width and riveted to the channel on their flangs. Base and top of columns, made of angle iron, is 12″ x 18″. Weight of column about 450 lbs.

LATTICED COLUMNS.

No. 12.—10 pieces of 22″ latticed channels, built of 3x4″ angles, 20′ long. Braced at ends and center with 12″ plate.

No. 13.—1 38′ latticed column made of two 10x2¾x⅜″ channels, connected by ⅜x2¼″ straps, riveted 12″ apart. Weight, about 50 pounds per foot.

No. 16.—20 pieces, 17″ latticed channels, built of 3x3x⅜″ angle iron, riveted together with 2¼x⅜″ straps. Braced with plates at each end and center. From 15′ to 25′ in length.

No. 14.—4 pieces, 20′ in length each, two angles, ⅜x3x5″, riveted together, making a pair, and two such pair connected by five ⅜x7½x15″ plates. Weight, about 850 pounds.

No. 15.—15 pieces, ranging from 5′ to 10′ in length. Piece consists of two pair 3x3x ⅜″ angles, connected by 2¼x⅜″ straps. Weight, about from 70 to 140 pounds per piece.

Piece consists of two pair 3x5x⅜″; angles connected by 2¼x⅜″ straps. Weight, from 100 to 200 pounds per piece.

No. 18.—15 pieces, ranging from 5′ to 12′ in length. Piece consists of two 3x3x⅜″; angles connect by 2¼x⅜″ straps. Weight, from 35 to 84 pounds each.

No. 19.—10 pieces, ranging from 5′ to 10′ in length. Piece consists of two 3x3½x⅜″; angles connect by 2¼x⅜″ straps. Weight, from 40 to 80 pounds each.

No. 20.—8 pieces, ranging from 5′ to 10′ in length. Piece consists of two 3x5x⅜″; angles connect by 2¼x⅜″ straps. Weight, from 50 to 100 pounds each.

Lot No. 18B203. Ten 24′9″ latticed columns, made of 12″ latticed by 2x5-16″ straps. These columns have a plate base and weigh about 1,200

No. 18B164. 30 latticed columns, 26′ in length, weighing each about 1,800 lbs. These are made of 10″ channels latticed by 2½″x7-16″ straps. lbs. each. Send for blue print.

No. 25.—Made of two 10″ channels, connected by 2¼x⅜″ straps, latticed every 12″. Weight about 52 pounds per foot, in following lengths:

1 column.....32′ in length.
17 columns.....13′ in length.

No. 26.—Same as above, only made of heavier channels. Weight about 56 pounds per foot.

6 columns.....13′ in length.
1 column.....18′ in length.

No. 27.—Made of two 19′ channels, connected by 2¼x⅜″ straps on one side and a ½″ plate on the other. Weight about 80 pounds per foot.

No. 28.—Made up of two 10″ channels connected by 2¼x⅜″ straps, latticed every 12″. Weight about 52 pounds per foot, in following lengths:

22 columns.....13′ in length.
7 columns.....14′ in length.
10 columns.....15′ in length.
1 column.....27′ in length.
10 columns.....32′ in length.
2 columns.....39′ in length.
2 columns.....40′ in length.
13 columns.....15′ in length.
7 columns.....17′ in length.

ANGLE IRON.

Angles latticed 14" apart by 2½x3-8 straps.

Lot No. 18B100. Size, 3½x3½x⅜; length, 28'; weight per foot, 8.5 lbs; quantity, 35 pieces making 70 angles.

Lot No. 18B100. Size, 3x3x¼; length, 28'; weight per foot, 4.9 lbs.; quantity, 35 pieces, making 70 angles.

Lot No. 18B105. Size, 2x3x3-16; length, 4'10"; weight per foot, 2.5 lbs.; quantity, 550.

Lot No. 18B105. Size 1½x1½x3-16; length, 4'10"; weight per foot, 1.8 lbs.; quantity, 150.

Lot No. 18B206. Size, 5x3x5-16; length, 33'; weight per foot, 8.2 lbs.; quantity, 8. Angles riveted together in pairs and two pair latticed by 2x¼" straps.

Lot No. 18B207. Size, 2½x2½x¼; length, 33'; weight per foot, 4.1 lbs; quantity, 28. See blue print. Angles riveted together in pairs and two pair latticed by 2x¼ straps.

Lot No. 18B220. Size, 3x3x⅜; length, 6'; weight per foot, 7.2 lbs.; quantity, 50 pieces, making 100 angles. Angles latticed by 2x⅜" straps.

Angles rivited two together.

Lot No. 18B219. Size,3 x3x⅜; length, 5 to 12'; weight per foot, 7.2 lbs.; quantity, 125 pieces, making 250 L's.

Lot No. 18B219. Size, 2½x2½x⅜; length, 5 to 12'; weight per foot, 5.9 lbs.; quantity, 125 pieces, making 250 L's.

Lot No. 18B226. Size, 2½x3½x5-16; length, 20 to 39'; weight per foot, 6.1 lbs.; quantity, 12 pieces, making 24 angles.

Lot No. 18B226. Size, 3½x5⅜; length, 20 to 39'; weight per foot, 10.4 lbs.; quantity, 12 pieces, making 24 angles.

Lot No. 18B226. Size, 4x6x⅜; length, 20 to 30'; weight per foot, 12.3 lbs., quantity, 12 pieces, making 24 angles.

Angles riveted two together.

Lot No. 18B234. Size, 3x3x5-16; length, 10 to 15'; weight per foot, 6.1 to 6.6 lbs.; quantity, 20 pieces, making 40 angles.

Lot No. 18B234. Size, 3x3½x5-16; length, 10 to 15'; weight per foot 6.1 to 6.6 lbs.; quantity, 20 pieces, making 40 angles.

No. B104A. 120 feet of 1½ x 1½ inch augles weighing 1.4 lbs per foot, in lengths up to 20 feet.

No. 18B104B. 125 feet of 2 x 2 inch angles weighing 3.2 lbs per foot, in lengths up to 25 feet.

No. 18B104C. 100 feet of 1 x 1 inch angiels weighing 1.2lbs wer foot up to 22 feet.

ANGLE PLATES.

We have about 5 tons connecting angle plates in all sizes.

T IRON.

No. 13.—2000' "T" iron, 3x3½ and ½" thick.

No. 14.—30 pieces "T" iron, 26' long, 4x 4¼, ½" thick.

No. 104.—30 pieces, 26' long, 4½" flange.

No. 105.—20 pieces, 20' long, 4½" flange.

No. 106.—20 pieces, 20' long, 1¼x1¼, 2 pounds to the foot.

No. 107.—20 pieces, 25' long, 1¼x1¼, 2 pounds to the foot.

Lot No. 18B114. Size, 2x2x¼; length, 30' weight per foot, 3.7 lbs.; quantity, 75.

STEEL PLATES.

No. 1.—50 pieces steel plates, 1" thick, 2', 6x4', 45 pounds to the square foot.

No. 2.—8 steel plates 43"x8'1", ⅜" thickness. Rivet holes on ends and sides.

No. 3.—10 steel plates, 36" wide by 16' long; built of ⅝" steel.

No. 4.—5 steel plates, 18' long, by 42" in width; made of ⅜" steel.

No. 5.—50 tons steel plates, 36" wide, 10' long, ⅛" thick.

No. 6.—100 tons steel plates, 5' wide, 10' and 12' long, ¼" and 3-16" thick.

No. 7.—10 steel plates, 36" wide, 16' long, ⅝" thick.

No. 18B206.—Seven ⅝" plates, 120½x43". Weight 540 lbs. each.

STEEL FLATS.

Lot No. 18B221. Three ⅜" Plate, 120 ½"x43", weighing each 540 lbs.

Lot No. 18B124. Size, 4x3-16; length, 9'; weight per foot, 2.55 lbs ; quantity, 66.

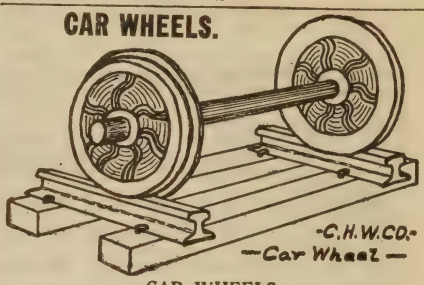
Lot No. 18B125 Size, 2x½; length, 12'; weight per foot, 3.4 lbs.; quantity, 36.

Lot No. 18B126. Size, 2x½; length, 17'; weight per foot, 1.7 lbs.; quantity, 190.

GALVANIZED PLATES.

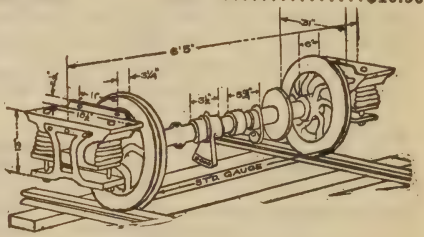
No. 324.—We have several hundred plates made of No. 10 and No. 12 galvanized iron, ranging in width from 30" to 36", and from 4 feet to 6 feet in length.

CAR WHEELS.



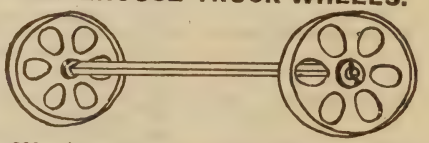
CAR WHEELS.

We have 80 sets of good Car Wheels. Size of flange 1¼ inch, gauge 23 inches, diameter of wheel 13 inches, size of axle 2 inches, journals 1½ inch. Per Set.....$10.50



We offer 600 sets of second-hand Car Trucks in good condition, as per illustration. These trucks are of standard gauge, 4 feet 8 inches; diameter of wheels, 31 inches; diameter of axle, 2¾ inches. The boxes are fitted with brass journals. These trucks are suitable for construction of cars of various kinds and are especially desirable for quarry or lumber trucks or other purposes where more than an ordinary heavy truck is used. Weight per set, abcut 2100 pounds. The set includes four wheels, (the wheels being fast to the axles), two axles and four boxes. Price per set.....$35.00

WAREHOUSE TRUCK WHEELS.

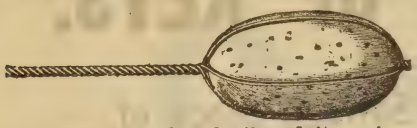


300 pair of warehouse wheels, dimensions as follows: Diameter of wheels, 17 in. with 2 in. face, containing 8 wrought iron spokes, built in heavy cast iron rim and hub. Spokes made of ⅜ in. wrought iron. These are complete with square axles, 1½ in. in diameter. Extreme length from outside to outside of wheels, 35 in. Length of shaft inside of wheels. 27 in. These axles have 1½ in. hole close to the wheels at each end to bolt on to platform of trucks. Wheels runs loose on axle. Price, per pair...$4.00. Per set of four ...$7.00

Lot No. 18B120. Six iron 4-wheel trucks. Wheels are 14 inches in diameter and body of truck is made of 4 in. channels, re-enforced by flat iron; 7 feet 4 ins. in length over all; width 32 in.

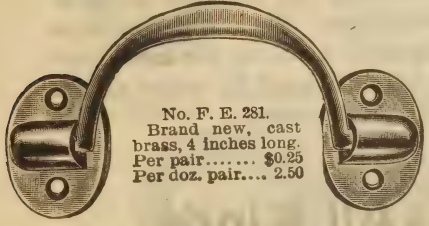
Prices Sent On Application

The Famous Universal Fire Kindler



The cheapness of coal oil and its universal use in every household has long since been acknowledged as the most convenient and quickest means of starting a fire. The famous Universal Fire Kindler brings safety and economy to the home, is clean and convenient, to start either coal or wood fires without the aid of other kindling. The Kindler is about twelve inches in length, is so constructed as to be very porous, easily and quickly saturated and indestructible by fire. The handle is made of steel wire. The Kindler will absorb from one to two ounces of oil and burn from ten to fifteen minutes. It can not explode or get out of order. Light it and hold it until it burns out and see what a long, intense heat it makes. Per dozen. $1.25.

Lifting Handles.



No. F. E. 281.
Brand new, cast brass, 4 inches long.
Per pair..... $0.25
Per doz. pair.... 2.50

Oil Cup.

No. F. E. 282. Brand new, zinc body, brass bottom, 1¼ inch diameter, 1⅝ inch spout, 2⅛ inches long over all.
Each..... $0.10
Per doz..... 1.00

Carr's Combination Tool Holder.

No. F. E. 283. The collar is drop forged and case-hardened; the set screw is steel, hardened; the shank, steel, case hardened, and tools of self-hardening steel.

It will be readily seen that the holder combines two in one, and its usefulness will be apparent to all users of such tools. We furnish two tools with each holder, one diamond point and one ground for cutting-off on one end and threading on the other.

PRICE LIST.

No.	Size of Shank.	Size of Cutter.	Price.
1	⅜ x ⅜ x 6 in.	¼ in. square.	$0.95
2	½ x 1 x 6 "	¼ " "	1.00
3	⅝ x 1¼ x 7 "	⅜ " "	1.35
4	¾ x 1⅝ x 9 "	⅜ " "	1.75

Meat Cutters

Purchased at Manufacturer's Sale

Guaranteed Brand New and in Perfect Condition.

With Clamp

The Phoenix Meat Cutter is the result of long experience with, and careful study of the objectionable features of all other meat cutters, and we give it our unqualified guarantee as a first-class machine in every respect. Useful in preparing Salads, Mince, Hamburg Steak, Sausages, Hash, Croquettes, etc. The meat is never torn, but the two sets of knives insure the clean cutting of all parts to equal fineness, leaving no uncut sinews, nor strings. Each Cutter has a perforated plate with holes 0⅝ inches in diameter.

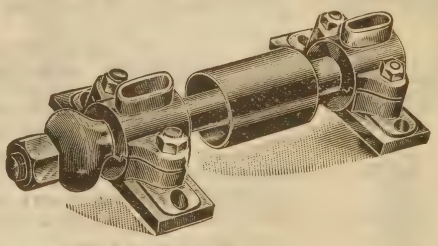
Stock List and Net Prices with Clamp

No. 0. Small size for family use.....each, $0.75

Send Us Your Lumber Bill For Our Estimate.

CIRCULAR SAW MANDRELS.

No. F. E. 286. Always on hand. Can furnish with pulley on end, or in center.



Size	Size Pul y	Size Shaft	Hole in Saw, ins.	Length Shaft	Price
1	2½x3½	1 1/16	1	16½	$ 3 60
2	3 x4	1 1/16	1⅛	19	3.90
3	3½x4½	1 1/16	1¼	21½	4.35
4	4 x5	1 1/16	1⅛	24	4.90
5	4½x5½	1 1/16	1 5/16	26	5.45
6	5 x6	1 1/16	1⅜	28	5.90
7	5½x6½	1 1/16	1⅜	30½	6 70
8	6 x7	1 5/16	1½	32½	8.65
9	7 x8	1 5/16	1⅝	37	9.90
10	8 x8	1 3/16	1⅝	41	11.35

SPECIAL SALE OF KEYS.

We Bought the Complete Salvage Stock of

J. F. WOLLENSAK

The Best Known Manufacturer of Locksmiths' Supplies in the West.

For Many Years Located at

Franklin and Lake Sts., CHICAGO.

Some of the stock was damaged by water. It was purchased by us complete. We have taken it to our main warehouse at 35th and Iron Streets, overhauled it, graded it up, and are now offering the complete stock at prices considerably less than the cost of production. We are offering keys of regular stock, put up in packages as originally made by the manufacturer, in good condition. Those keys that were damaged by water or are rusted are graded in a separate lot after the regular stock.

MIXED KEYS—All Kinds

In this lot of keys we include all those that were thrown together on account of the cases that contained them being broken, and these keys have been more or less wet and rusted. We have "tumbled" them and have removed all signs of rust as far as we possibly could, and they are in reasonably good shape. The brass keys, of course, are free from rust.

FLAT STEEL KEYS.

Lot No. 1. Mixed, all kinds together, cut and uncut. Trunk Keys, Door Keys, Chest Keys, and Keys of all kinds. Price per pound..... **$0.03**

BRASS KEYS AND BLANKS.

Lot No. 2. All kinds, just as they come, mixed together. Price per pound..... **$0.20**

MALLEABLE IRON DOOR KEY BLANKS.

Lot No. 3. Mixed, all kinds. Per pound..... **$0.04**

STEEL AND MALLEABLE IRON CUT DOOR KEYS.

Lot No. 4. All kinds, mixed together, just as they come. Per pound..... **$0.04**

Keys of Every Description

Lot No. 5. Keys of every kind and description, mixed together, just as they come, Steel and Iron, Flat and everything included in this lot. They are considerably rusted. Some of them may be stuck together. Price per pound..... **$0.02**

FLAT STEEL TEMPERED LOCK SPRING WIRE.

A complete stock of this wire as follows:

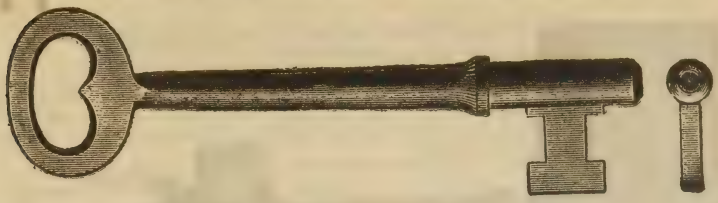
$\frac{1}{2}$ wide by 26 gauge.
$\frac{5}{8}$x26.
$\frac{7}{16}$x20–21–26.
$\frac{5}{8}$23–25.
$\frac{5}{32}$x19–21–22–24–25–26.
$\frac{1}{4}$x20–21–22–24–26.
$\frac{1}{2}$x18–20–22–24–26.
$\frac{7}{16}$x14–16–18–20–22–24–26.
$\frac{1}{4}$x14–16–18–20–22–24.
$\frac{5}{16}$x14–16–18–20–22–24–26.
$\frac{1}{16}$x21.
$\frac{3}{32}$x12–14–16–18–22.
$\frac{1}{2}$x18–20–22.
$\frac{1}{8}$x18–20.
$\frac{1}{4}$x18–20.
$1\frac{1}{16}$x24.

Price per pound..... **$0.15**

10 Per Cent Discount on $10.00 order of Keys.

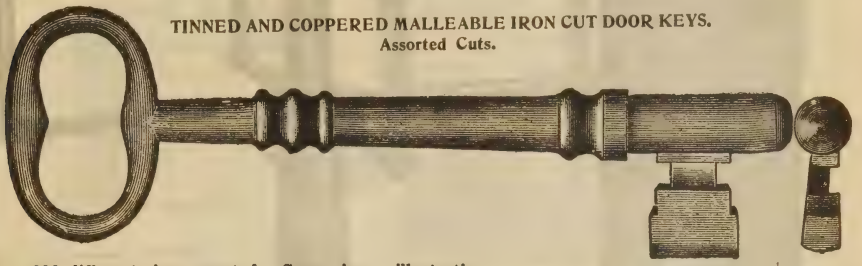
KEYS—Continued.

MALLEABLE IRON SOLID PIN DOOR KEYS.



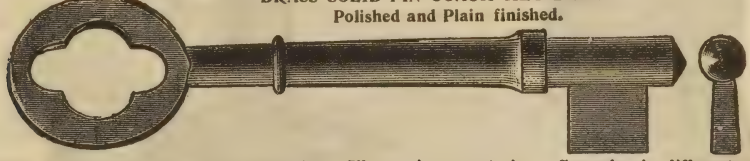
Come in 6 different designs. Same size as illustration.
Lot No. P4642, Polished, per dozen..... $0.20
Lot No. R4642. Tinned, per dozen..... .10

TINNED AND COPPERED MALLEABLE IRON CUT DOOR KEYS.
Assorted Cuts.

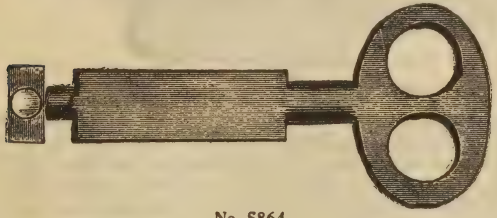


200 different sizes assorted. Same size as illustration.
Lot No. R6523, per dozen..... $0.10

BRASS SOLID PIN COACH KEY BLANKS.
Polished and Plain finished.



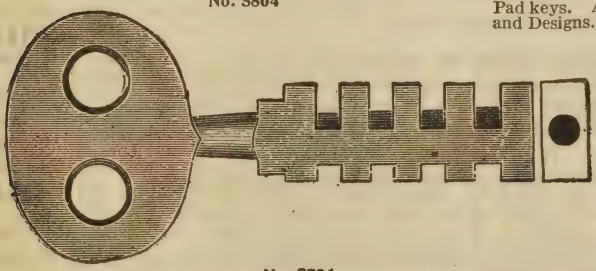
Lot No. A2045. All about the same size. Illustration exact size. Come in six different patterns
Polished, per dozen..... $0.85
Lot No. O2045. Plain brass keys. Per dozen..... .60



No. S864

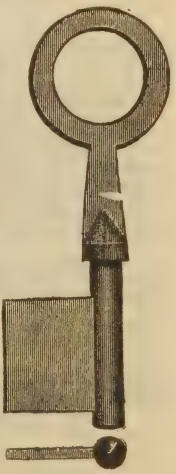
MALLEABLE IRON SCANDINAVIAN PADKEY BLANKS.
Lot No. S864. 20 assorted designs. Illustration same size. Per dozen....$0.02

MALLEABLE IRON DRILLED PAD KEY BLANKS.
(See Cut No. B20).
Lot No. S1044. Blanks. 150 different styles and patterns. Per doz...$0.03
Lot No. V1325. Drilled Cut Pad keys. Assorted Cuts and Designs. Per doz $0.05



No. S726

MALLEABLE IRON SCANDINAVIAN PAD KEY BLANKS.
Partly Cut.
Lot No. S726. 25 assorted designs. Illustration same size. Per doz $0.15

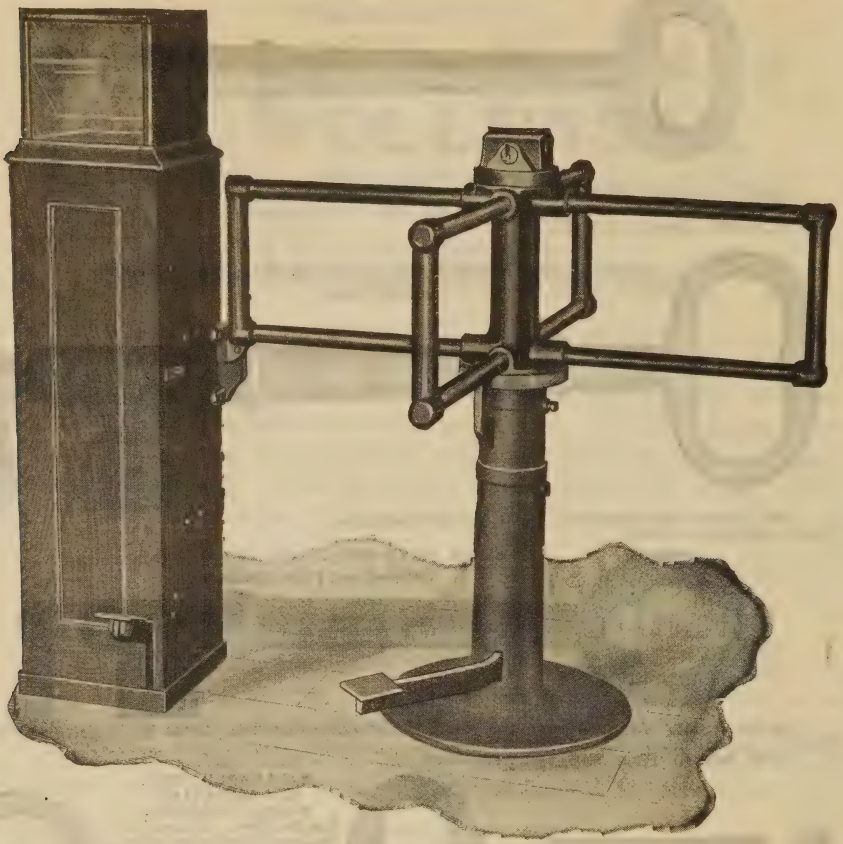


No. 1720

NICKEL PLATED, STEEL AND MALLEABLE IRON PAD KEY BLANKS. Solid Pin.
Lot No. C1720. Plated. Blanks. 100 assorted designs. Illustration same size. Per dozen....$0.20
Lot No. V1720. Iron. per dozen..... .16

NICKEL PLATED, STEEL AND MALLEABLE IRON, SOLID PIN CUT PAD KEYS.
Lot No. C1855. Plated. Same style as above, assorted cuts. 50 different designs and cuts. Per dozen..... $0.10
Lot No. V1855. Iron. Per dozen..... .05

Turnstiles and Ticket Choppers



The Combination Turnstile and Ticket Chopper

This Illustration of Turn Stile and Ticket Chopper shows the arrangement when used together. They are both constructed to use singly or together and do not require any extra attachments or additional parts when set up together. The foot lever of the Turn Stile can he held down by inserting a plug in the base and the Ticket Chopper will operate both machines at the same time by releasing the arm of the Turn Stile as the lever is pressed down without any more pressure than is required to operate the former alone. The dimensions of the Turn Stile are: Length of arms over all 41 inches, height from floor to top of arms 36 inches, weight ready for shipping, 138 pounds. The dimensions of the Ticket Chopper are 4 feet high, body 10 x 10 inches, and the weight ready for shipping 100 pounds. Complete combination
Price, each **$115.00**

Turnstile "A" is the standard type of Turn Stile and represents the acme of manufacture in this direction. It is the product of nineteen years of experience with consequent improvements from time to time, so that today it is simple and effective and covers every requirement that should be embodied in a Turn Stile. It is substantially made with best quality grey iron base, finished slate color with arms of 1¼ in. special grade seamless steel tubing japanned. It is operated by a foot lever, which releases the arms. The register, which registers from one to 100,000 and can be reset at any intermediate number at any time, is enclosed in a brass casing, locked with a Yale Lock, so that only the proper person may open it. The length of the arms over all is 41 inches and the height from the floor to the top of the arm 36 inches. Weight ready for shipping 138 pounds.
Price, each **$50.00**

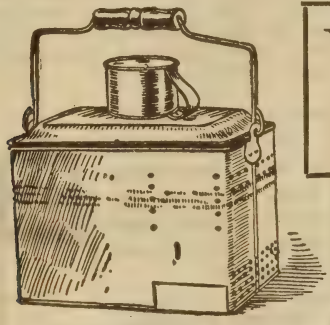
TICKET CHOPPER or cancelling machine in a great many cases is used to advantage with the Turn Stile. It completes the system, is an absolute check on all receipts and cancels the tickets in such a way that they cannot possibly be used again. At side attractions where it is the desire to handle crowds very rapidly the Ticket Chopper is used successfully, independent of the Turnstile.

The tickets are dropped in the open glass top of the machine and are fed in between two rolls, operated by a foot lever, which perforates them with clean cut holes without mutilating them, and leaves their surfaces smooth so that they can be easily counted by placing them on top of each other in the usual way, if desired. For the body carefully selected oak is used while the top is made of heavy plate glass with a highly polished brass frame. The dimensions are 4 feet high, body 10 x 10 inches. Weight ready for shipment 100 pounds.
Price, each **$65.00**

5000 HOT LUNCH DINNER PAILS

Bought at Underwriters Sale.

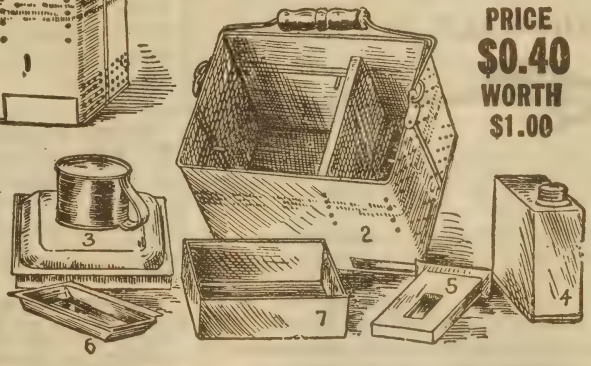
Some are slightly rusted on the surface, not enough, however, to do them any material harm. They are still in original crates as put up by the factory. This is positively the most complete and improved Dinner Pail on the market.



WARM LUNCH AND HOT COFFEE
IN FIVE MINUTES

PRICE $0.40 WORTH $1.00

NO MORE COLD MEALS



1 Complete Pail. 2 Body of Pail. 3 Cover. 4 Coffee Can. 5 Alcohol Lamp. 6 Frying Pan. 7 Tray.

THE ONLY HOT LUNCH DINNER PAIL ON THE MARKET.

Description—The most practical dinner or lunch pail made. It is the only dinner pail on the market, so constructed whereby means is provided for heating tea or coffee and vegetables, cooking eggs or other small articles of food and simultaneously warming the food in the other compartments in the pail without danger of over heating.

The Hot Lunch Dinner Pail also provides means for adequately ventilating the lamp compartments to produce proper combustion and to carry off the fumes without bringing them in contact with the food, thus avoid tainting it by the odors of the wood alcohol or other liquid fuel used in the lamp, the ventilating means being effective whether the lamp is burning or not.

The liquid and food receptacles and cooking utensils are made compart so as to occupy the least space.

The frying pan, having projected edges, is adapted to fit in the top of the heating chamber when the can is removed, the flanges supporting the pan. When pan is not in use, it may be inverted and secured to the under side of the pail cover.

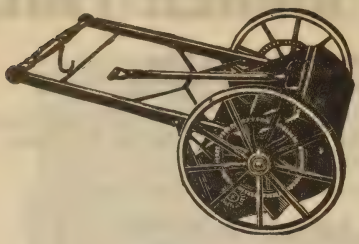
By inverting the pan it occupies very little space in the pail.

The regular retail price was $1.00

NOTE OUR PRICES

In Single Lots, Each 40c. In Dozen Lots, Each 20c.
In Six Dozen Lots, Each 15c.

SWEEPING MACHINES.



No. 274. These wonderful Sweepers came to us from the World's Fair, St. Louis. They are the most practical sweeper manufactured. Were used in keeping clean the highways of the exposition. They are named the "Peerless" and are fully deserving of the name. Useful for parks, public buildings, factories, theatres, hotels, etc. We have 20 of them. Each, with extra brush.....**$25.00**

ASHPHALT SCRAPERS.

No. 610. Forty steel Ashphalt Scrapers, made by the Austin Manufacturing Co. for use at the St. Louis World's Fair. Good as now.....**$2.00**

Our stock of Household and Office Furniture is the largest in the West. Write us your wants and we will guarantee to suit both your taste and pocket-book.

STEEL FLAG POLES.

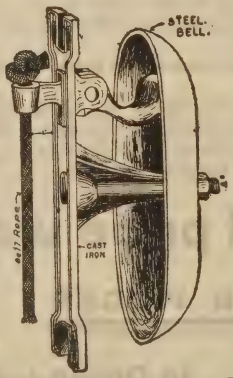
We make to order sectional steel tube flag poles in any length and of any desired size. Write us your wants.

PAPER FLOWER POTS.

No. M83—

2¼ inch, per dozen. .$0.03
2½ inch, per dozen... 0.04
3 inch, per dozen... 0.05

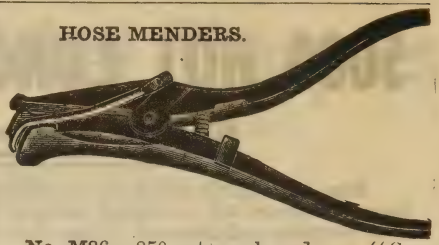
Gong Bells.



Two hundred Gongs like illustration. They were used on street cars which we dismantled and are in first class condition in every way. The bell is 9 inches in diameter and the castings for fastening are 9½ in. long. They are strongly built. Will give good general service. The bell proper is made of a special steel bell metal and gives a good strong sound.

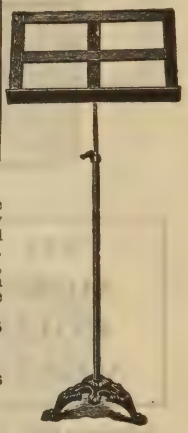
Price, each.....**$1.75**

HOSE MENDERS.



No. M86. 250 sets or brand new "Centaur" Hose Pliers and Menders. Each set put up complete in a box, consisting of 1 pair Japanned pliers and 7 hose bands. Price, per set.....**$0.30**

We have 5,000 ft. of first class Garden Hose. Write us before purchasing elsewhere. We will save you money.

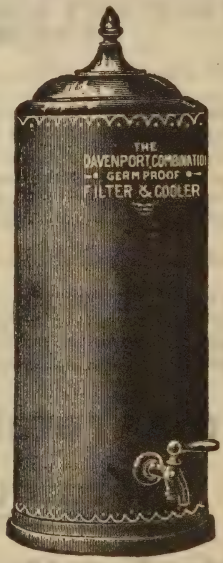


MUSIC STANDS.

No. M79. 100 Malleable iron music stands. Heavy iron ornamented base. Used during St. Louis Exposition. Quarter sawed oak desk, 13x20 inches. Adjustable iron slide rod. Just the article for band or concert use.
Price.....**$1.25**

WATER FILTERS.

These came from the World's Fair, St. Louis, were used 6 months, are first-class for further service.



No. 596. 50 portable combination germ-proof Filters and Coolers. Have bristle stone ware lining with ice shield, galvanized outside casing, nickel-plated faucet. Style 26, capacity 6 gallons, weight 76 pounds.
Price .....each, **$4.00**

No. 597. Style 210, capacity 10 gallons, weight 125 pounds.
Price ....each, **$6.00**

No. 598. Style 220, capacity 20 gallons, weight 188 pounds.
Price .....each, **$7.00**

No. 599. Also 25 other Water Coolers, 6-gallon capacity, galvanized iron inside cylinder, plated faucet, fancy decorated.
Price .....each, **$1.25**

No. 600. 25 same as above, 20 gallons capacity.
Price .....each, **$5.00**

No. 841. Two No. 2 complete Filtered Water Coolers, made by the National Filter Co. Full description and price on application.

Get Our Prices Before Closing a Deal.

Extra Grade Wall Tents

No. 0000. We bought the entire stock of a tent manufacturer who was forced out of business. They are made of extra heavy duck and are well stitched with double twisted thread.

They are furnished complete with poles, ropes and stakes. No flies. And 5 per cent for each additional 6 inches of wall required. Flies complete, but without fly poles, half the price of tents of corresponding size.

SIZE.	HEIGHT OF WALL	8-OZ. DUCK	10-OZ. DUCK
7 x 7	3 feet	$5.20	$6.00
7 x 9	3 feet	6.50	7.25
9 x 9	3 feet	7.25	8.45
9½ x 12	3 feet	8.45	9.75
9½ x 14	3 feet	9.75	11.25
12 x 12	3½ feet		11.75
12 x 14	3½ feet		13.75
12 x 16	3½ feet		15.00
12 x 18	3½ feet		16.25
14 x 14	4 feet		16.00
14 x 16	4 feet		17.75
14 x 18	4 feet		19.50
14 x 20	4 feet		21.50

Add 5 per cent for each additional 6 inches of wall required.
Flies, complete, but without poles, half the price of tent of corresponding size.

PALMETTO TENTS—For Garden and Lawn.

Including Poles and Top Iron.

SIZE OF BASE.	SIZE OF TOP	HEIGHT IN CENTER	HEIGHT AT SIDE	8-OZ. DRILL	8-OZ. DUCK	STRIPE
7 x 7	2 feet, 4 inches	7 feet, 6 inches	6 feet	$5.00	$5.75	$7.25
8 x 8	2 feet, 4 inches	8 feet	6 feet, 6 inches	5.75	6.50	8.45
9 x 9	3 feet, 6 inches	8 feet, 6 inches	7 feet	7.00	8.45	10.50
10 x 10	3 feet, 6 inches	9 feet	7 feet, 6 inches	7.85	9.25	11.75

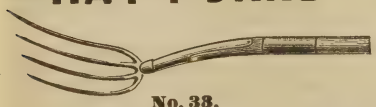
We have 50 million feet of Brand New Lumber that we are selling at from 30 to 50 % lower than the lowest.

DAMAGED WOOD SCREWS

Order No. 801

We have 15 barrels of assorted burnt wood screws, mixed all kinds, will sell just as they come assorted. Per lb. any quantity..$0 05 In 25 lb. lots....$1.00

HAY FORKS

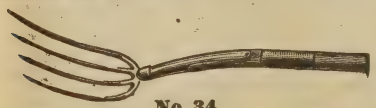


No. 38.

Solid Steel Shanks, selected handles, nicely finished.

	Each.	Per doz.
Four Tines.....	$0.35	$3.50

MANURE FORKS

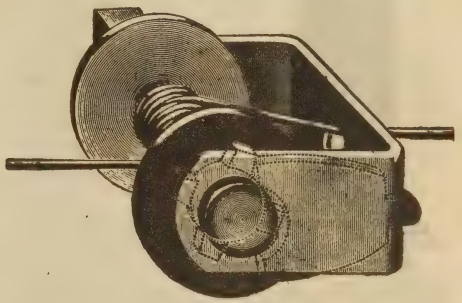


No. 34.

Solid Steel Shanks, selected handles, nicely finished.

	Each.	Per doz.
No. of Tines..... 4	$0.45	$4.50

WIRE STRETCHERS



The Acme Ratchets we are offering are unquestionably the Best on the Market.

The frame and lock are made of steel—making them strong and durable.

It has a large reel that will hold 10 ft. of No. 10 wire, and can be filled without obstructing the lock.

As it is strung on the wire before it is fastened to the end post, it may be placed anywhere in fence, and where it is used no stretcher is required.

It will lock either side up, and the tension may be increased or slackened with ease from either side of fence.

No wires to cut. No loops to make. No holes to bore. No loose parts to get lost. No other ratchet can be so easily and quickly applied.

It is out of the way of drive gates, etc.

Price, each.....$0.03½
Per hundred..... 3.00

Send us your lumber bill for our estimate

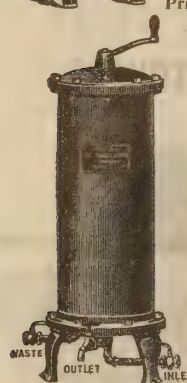
WATER FILTERS.

These Filters were exhibited at the World's Fair at St. Louis and were awarded prizes.

Filtration is the simplest, easiest and cheapest method of purification known. Perfect filtration removes all disease germs and all animal and vegetable matter in suspension, but allows the soluble salts and free oxygen to remain, and supplies a purely fresh, aerated water. **Fill these filters with any kind of water, no matter how foul, and it is quickly converted into water of crystal purity, revitalized and sterilized, delicious and palatable.** Handsome and durably made. Every part is accessible and can be easily cleaned when necessary.

MONITOR STONE FILTERS.
For Hotels, Restaurants and Laundries.

No. 2. These Filters were designed for places where liberal supplies of pure water are required. The tubes used are natural stone, four inches in diameter by twelve inches long, with a three-quarter inch hole through the center, thus having walls 1⅝ inches thick. Three of these tubes are joined together between two caps by means of a brass rod on inside of tube. The bottom cap is perforated, making an outlet for the filtered water into the fitting at the base. The casings are made of galvanized steel, being 6¼ inches in diameter by 38½ inches in length. Capacity per hour, 50 to 100 gal. Per day, 300 to 400 gals.
Price **$25.00**

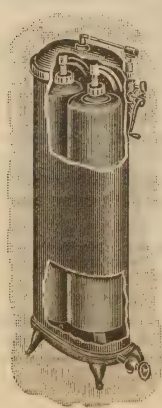


NATIONAL NATURAL STONE FILTERS.

No. 6. Natural Tripoli corrugated stone is used for the filtering medium, which, owing to its high capillary formation is acknowledged to be the best filtering medium known. Diameter 12 inches; height, 44 inches; supply and discharge and washout pipes ¾ inch. Effective filtering surface 4¾ square feet. Capacity per hour: Lake water (25 lbs. pressure) 100 gallons. Muddy river water: (25 lbs. pressure) 14 to 28 gallons. Weight, boxed or crated, 10 lbs. **Price** **$40.00**

No. 7. Diameter 12 inches; height 63 inches; supply discharge and washout pipes ¾ inch. Effective filtering surface 7 square feet. Capacity per hour lake water (25 lbs. pressure) 150 gallons. Muddy river water (25 lbs. pressure) 21 to 42 gals. Weight, boxed or crated 175 lbs. **Price ... $50.00**

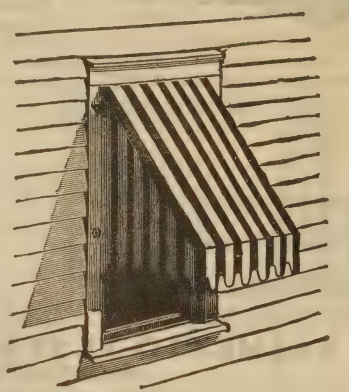
STEWART FILTERS.
These filters took first prize at the St. Louis World's Fair.



The filtering medium is porous stone, similar in appearance to sand stone and made up in the form of cylinders, 8 inches in diam. by 36 inches long. Two of these cylinders are employed in each Filter, and are arranged so that one may be kept continually pressed against the other. Any desired pressure may be obtained by adjusting the screw shown in cut. The turning of the crank causes each cylinder to revolve in an opposite direction and as their granular surface are in close contact, all impurities are ground off and washed away. **Guaranteed in every particular. Price..... $60.00**

AWNINGS

AWNINGS FROM THE WORLD'S FAIR.



The following Awnings were secured by us in connection with our purchase of the St. Louis World's Fair. All of them are guaranteed to be in first class condition and complete with Irons, ready for further use. Most of them are made of Superfine 16-ounce Duck. The size of any one can be changed, either reducing it 12 inches or widening it 24 inches. We have 250 of these Awnings on hand, and can practically furnish any quantity of one size, or will make them up so that you can purchase from us any number of Awnings of any one size.

Our price of these Awnings is as follows:—

Width.	Price Each.	Width.	Price Each.
27 inches	$1.20	66 "	4.50
34 "	1.50	72 "	5.00
37 "	2.50	78 "	5.50
46 "	3.50	84 "	6.00
48 "	3.60	90 "	6.50
50 "	3.65	96 "	7.00
54 "	3.75	108 "	8.00
60 "	4.00		

No. 1563. Three Store Awnings, each about 9 feet wide; have adjusting drop bars. The upright portions of the Awnings intended to be fastened to the wall or ledge, covered with a very neat quality of blue and white stripe ticking. Have been overhauled and at the present time are in good condition.
Price ..... each, **$3.50**

No. 1562½. Two Veranda or Boat Awnings were secured from some of the various naphtha launches, which carried passengers on the beautiful lagoons throughout the Exposition grounds. These are made of fine white duck of a heavy quality, are oval in shape, measuring 20 feet long and at widest or center, 5 feet across. They taper from that point to a width at ends of about 36 inches. Are fitted at intervals of about 4 feet with maple cross braces, from which descend brass tubes or stanchions; pulley ropes extend through these brass tubes for purpose of fastening Awning to a deck or floor. These may be used for various purposes such as for stairways or for porches. They are in perfect condition and show no signs of actual wear.
Price ..... each, **$4.50**

Double Deck Car Truck.

This is a solid iron car with the exception of the deck, which is made of hardwood. They are 26 inch gauge, 12-inch wheels, set in roller bearing boxes. The axles are solid on the wheels. Diameter of axle, 1½ inches. Length of frame, 61 inches. Width of frame, 34 inches. The bottom frame is made of 3x2½" angle iron. The upper deck is supported by four 2½x2½" angle irons, one at each corner. The angles can be taken off of the upper deck and car used as a single platform car. The decks are made of hardwood and are belted to iron frame with 1½"x1½" angle iron. They are second hand but in good condition. We will paint them up and put them in first class condition before shipment. They were originally made by the Ironclad Dryer Co.
Price.....$10.50

GASOLINE TORCHES

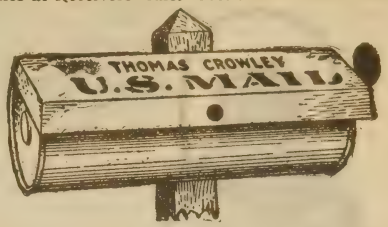
Light your dark places well. A poor light is an aggravation and expense. A good light is a joy and profit.

THE INVINCIBLE TORCH

The Invincible Wall Torch is the best and simplest Torch made and for street stands, street and building work, tents, camps, steam boat landings, freight sheds, shops and warehouses it is unequaled. It is very little affected by dust, snow or rain, and cannot be blown out by wind. The one gallon tank is strongly made and braced and can be removed if desired. A solid bronze ring is provided to hang it up, and the feed pipe connection is also bronze. The burner is simple, durable and powerful, and like all our burners, is well known to the trade. A bronze check or shut-off valve adds to its safety in case of accident or carelessness. These torches are rapidly gaining in popularity, and their use is being continually extended on account of the effective work done. Our torches give a bright, clear, flame scarcely inferior to an arc light in capacity. Each.....$0.88

RURAL MAIL BOXES.

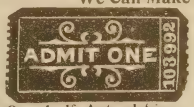
Just Purchased 600 of These Strongly Constructed Boxes at Receivers' Sale. 50c. each. Worth $2.00.



No. 111. Has no attachments to get out of order, break or freeze shut. It's the kind the Farmer wants and the Carrier too. He don't have to get out of his rig to serve. They are made of honest material throughout. Lid is made of 20-gauge galvanized steel, very heavy, and body of 24-gauge steel thoroughly reinforced. It has automatic signal painted bright red above the box, making it easily seen. Lid is self-closing. The body of the box being round, pennies or mail can be removed with gloves or mittens on. There are no cracks in it around the edges, as in the square boxes, for postal cards or pennies to lodge in. It is also dust proof.

STRIP ADMISSION TICKETS

We Can Make Immediate Delivery.

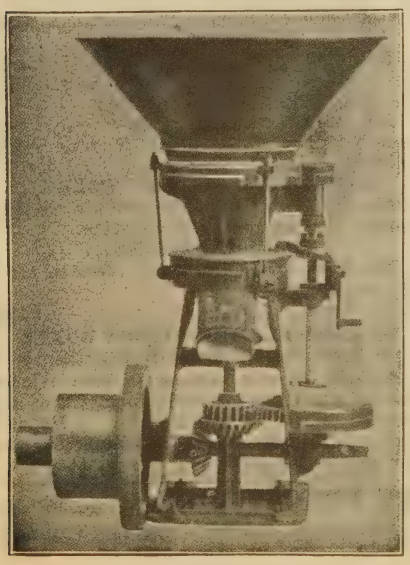


One-half-Actual Size.

No. 97. Stock Tickets same as shown in this illustration, plainly printed on one side, "Admit One." The back is nicely engraved so that they are easily recognized. They are put up 2,000 to a roll. They are consecutively numbered. We can furnish them in ten different colors. Our prices are as follows:

In lots of 50,000 or more.....10c
In smaller quantities.....11c

All kinds of tickets can be printed to order. Prices on application. We will ship C. O. D. where a deposit of **25 per cent. accompanies order.** It will, however, save **time and expense of paying Return Charges if you will send the correct amount with your order.** All tickets are correctly numbered, perforated and notched. We cannot guarantee that the numbers will begin with one or any other particular number.



NEW FEED GRINDERS.

BOUGHT AT MANUFACTURERS' SALE WE OFFER AT LESS THAN MANUFACTURING COST.

No. 63. This mill has a shut-off in the feed which will allow it to be reduced or increased in capacity as desired, depending upon the amount of power to be used. It has the best cob breaker, and the best natural feed. It will not choke, and will not heat the grain.

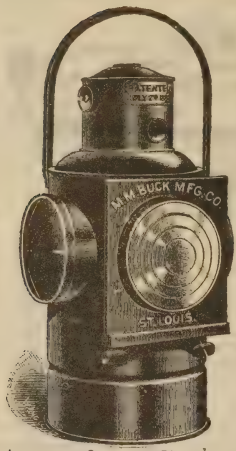
DIRECTIONS FOR OPERATING:

These mills are shipped set up complete, except the hopper, which is easily placed on the mill by putting the three rods in their places and screwing down with the thumb screws. Set the mill in line with the power applied, that is, the shaft of the mill must be parallel to the driving shaft. Put smooth side of belt next to pulley and be sure mill is level. Should your belt slip apply castor oil. Before starting mill separate the burs by turning small hand wheel No. 35. After the mill is started adjust the burs to the fineness required. In starting the mill we advise grinding coarse for the first ten minutes allowing the burs to become warmed and adjusted to the work. Start your mill with the brass cut-off closed then open to allow the grain to pass in burs in quantity dependent upon the fineness you are grinding and amount of power you are using. The burs are made of white metal very hard and true. **They are intended for corn and cob grinding** as well as for shelled corn and all grain for feed purposes.

The mill can be run by belt power, either horse, windmill, engine or electricity, and should be run at a velocity of between 750 and 1,000 revolutions.
Price.....$25.00

No. 66. Same as above without Cob Crusher.
Each.....$20.00

SWITCH LAMPS, ETC.



No. M1. 50 Prahm switch lambs made by the Handlan Buck Mfg. Co. of St. Louis; used on the Intramural Road at the St. Louis Exposition. The Prahm Switch Lamp is the standard on prominent railroads, such as the C., C., C. & St. L.; Chesapeake & Ohio, and others; and for slow and stop signals on the St. L., I. M. & S. R'y, adopted after severe competitive tests, and embodies the essential features of a reliable and brilliant light that cannot be extinguished by the most violent winds.

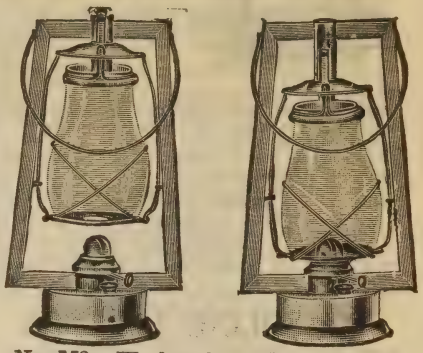
It is thoroughly well made, of best materials, and is more cheaply operated than any other, burning kerosene oil at a saving of 600 per cent as compared with signal oil, and 33 1-3 per cent as tested against other kerosene burning lamps.

It provides an absolutely safe signal that will always burn, never going out while the oil lasts. Explosion is impossible, as the Prahm System of Ventilation prevents a high temperature in the lamp.
Price, each.....$1.25

SIGNAL LAMPS.

No. M2. 11 Wells' Patent Signal Lamps; used on the Intramural Road at the St. Louis Exposition; second hand; in good condition. The special features of this improvement are the use of Lenses of required size and color, together with wings, or frames, holding colored glasses which when not in service are retained inside of and against the casing of the Lamp, but may be revolved from the outside and interposed between the lens and burner by simply moving the smaller levers projecting outside the Lamp, avoiding any necessity for turning, removing, or even opening the Lamp—the action being simple but positive, and readily understood by reference to the sectional cuts.
Price, each.....$1.00

TUBULAR LANTERNS.



No. M3. We bought at Manufacturer's sale two car loads of these strictly perfect, brand new, tubular lanterns; top lift, No. 0 globe, ⅝ inch burner, ⅝ inch wick; packed one dozen in a case.

You had better send in your order before they are all gone. **Note our prices.**
Each $0.45
Per dozen..... 4.00

We are continually picking up jobs of every conceivable kind of merchandise which we sell at sacrifice prices. Send for information on anything you desire.

FIRE EXTINGUISHERS.

No. M40. 10 Medium size Recks copper fire extinguishers without supplies.
Price, each.....$4.50

HARNESS HOLDERS.

No. M41. Four sets of Fire Department harness holders.
Price, per set.....$3.00

EXTINGUISHER HOLDER.

No. M42. 25 Babcock fire extinguisher holders.
Price, each.....$0.50

SULPHURIC ACID.

No. M43. 20 cases of sulphuric acid; for use on Babcock fire extinguisher charges. Price on appplication.

No. M44. 20 kegs of Bi-carbonate of soda, 112 lbs. to the keg. Price on application.

FIREMEN'S SLIDING POLES.

No. M45. 10 brass Firemen's sliding poles. Description on application.

SCALING HOOKS.

No. M46. One dozen 16′ Firemen scaling hooks.
Price, each.....$2.50

GAMEWELL FIRE ALARM BOXES.

From the St. Louis Exposition.

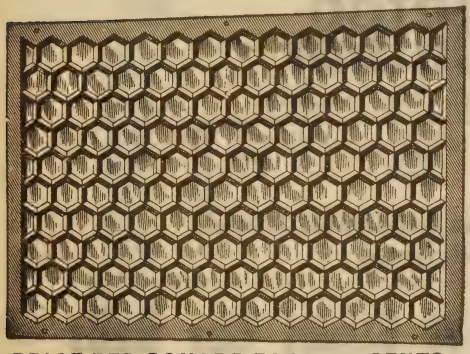
No. M. 87—12 Gamewell Fire Alarm Boxes which were used during the six months of the Louisiana Purchase Exposition. All in first-class condition. Write for prices.

STRAIGHT LINK IRON CHAIN

Always on hand a considerable stock of various sizes in straight link chain. We ship only good chain that is carefully inspected. In ordering state first and second choice. Although second hand it is thoroughly practical for further service.

Size—Inches	Approximate Weight per 100 foot	Price per 100 ft.	Size—Inches	Approximate Weight per 100 foot.	Price per 100 ft.
5/16	50	$ 2.40	1 1/16	1100	$26.00
1/4	75	2.50	1 1/8	1300	31.00
5/16	110	3.45	1 3/16	1400	34.00
3/8	155	4.75	1 1/4	1500	36.00
7/16	200	5.75	1 5/16	1750	Prices on Application.
1/2	265	8.00	1 3/8	1900	
9/16	420	11.25	1 7/16	2000	
3/4	590	12.50	1 1/2	2100	
7/8	800	19.50	1 5/8	2670	
1	1000	21.75	1 3/4	3100	

SIDEWALK OR ILLUMINATING TILE



PRICE PER SQUARE FOOT, 60 CENTS.

Price, 75c sq. ft.

1 piece 21″x50″ 185 Bulls-eye glass
1 piece 15½″x49″ 136 Bulls-eye glass
1 piece 23½″x66″ 330 Bulls-eye glass
1 piece 25″x50″ 226 Bulls-eye glass
1 piece 25″x48″ 104 Cast iron with cement face
2 pieces 22″x48″ 91 " " " " "
1 piece 23½″x37″ 108 " " " " "
5 pieces 23½″x43″ 153 " " " " "
3 pieces 25″x47½″ 101 " " " " "
2 pieces 22″x47½″ 91 " " " " "
1 Hexagon shape 30″ 127 lights

33 pieces 17″x35½″ solid cast iron floor or sidewalk plates with diamond shaped impression. Price, per square foot.....45c

2 pieces 17″x20″ solid cast iron floor or sidewalk plates with diamond shaped impression. Price, per square foot.....45c

1 piece 17″x26″ solid cast iron floor or sidewalk plates with diamond shaped impression. Price, per square foot.....45c

1 piece 30″x50″ solid cast iron floor or sidewalk plates with diamond shaped impression. Price per square foot.....45c

Steel plates, we can furnish any size smooth steel plates and in any thickness required, at a price of 2 cts. per pound.

WOOD PIPE

100,000 feet of wood pipe 4½-inch x 4½-inch, square; comes in 6-foot sections. Can be used for many purposes, such as conduits, irrigation, etc. Price, 3¼ c.

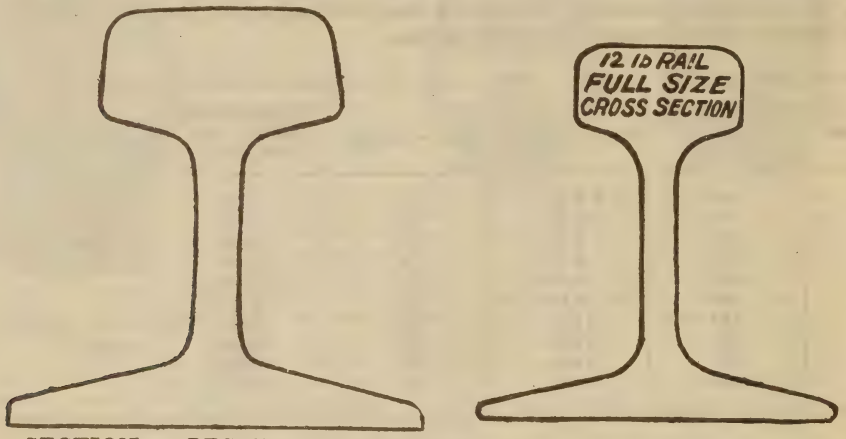
MANHOLE COVERS

Two hundred cast iron covers used on valve boxes; size of frame 25x25, size of cover 20x20; fitted with wrought iron ring. Price on application.

New and Relaying Rails.

We have for prompt delivery 8, 12, 16, 20, 25, 30, 35, 40, 50, 60 and 70-lb. rail. We can also furnish splices for them.

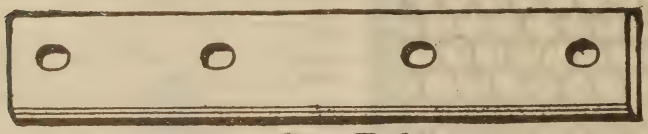
We are always in position to offer you bargains in rails, both new and relaying. It is impossible to print correct stock sheet, as our stock changes every day. Write us your wants.



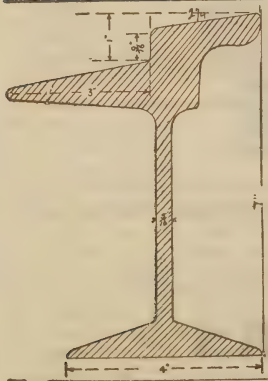
SECTION 20 LBS. PER YARD.

Fish Plates.

Fish plates to fit any size rail. Write for prices.



Write for Prices.



30 Miles of Street Car Rails

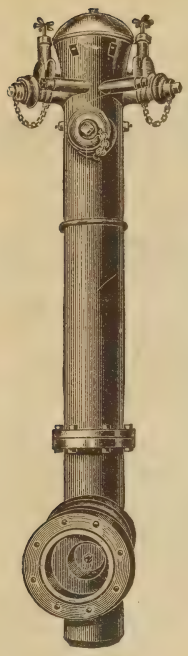
Through our purchase of the Cable System of the **Chicago City Railway** we obtained 30 miles of first class 7 inch and 4 1-2 inch Girder Rails weighing approximately 20 and 25 lbs. to the foot. These rails are in good condition, some of them having seen but very short service. They are in our yards and can be shipped on the shortest notice. Prices on application.

WE CARRY A STOCK OF RAILROAD SPIKES.

Hydrants and Indicators

used at the

St. Louis World's Fair.



The Pratt & Cady Hydrants.

96 5¼-inch hydrants manufactured by Pratt & Cady Company, of Hartford, Conn. Set 4 feet in the ground, have 2 2½-inch hose connections and 1 4-inch steamer connection; inlet is fitted with companion flanges for 8-inch standard threaded pipe.

Price, each $25.00

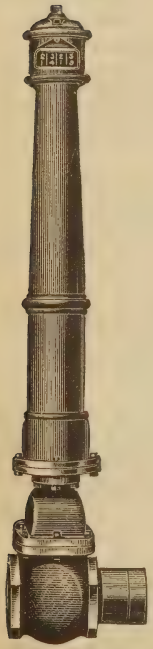
150 4¼-inch hydrants manufactured by Pratt & Cady Company. These hydrants set 3 feet in the ground, have 2 2½-inch hose connections and the inlet is fitted with companion flanges for 4-inch standard threaded pipe.

Price, each $17.50

The Corey Hydrant.

78 "Corey" hydrants manufactured by the Rensselaer Company, of Troy, N. Y. They are designed to set 4 feet in the ground, have 2 2½-inch hose connections and 1 4-inch steamer connection; fitted with companion for standard 8-inch flanges threaded pipe.

Price, each $25.00



59 "Corey" hydrants, designed to set 3 feet in the ground, have 2 2½-inch hose connections; inlet is fitted with companion flanges for 4-inch standard threaded pipe.

Price, each $17.50

Indicator Stands.

42 adjustable indicator stands, adjustable for valves setting 3 to 4 feet in the ground; stand 33 inches above the ground and are fitted with 6-inch M. B. & I. W. screwed gate valve.

Price, each, complete.....$15.00

36 adjustable indicator stands, adjustable 3 to 4 feet, fitted with 4-inch M. B. & I. W. gate valve.

Price, each, complete.....$12.50

These stands and valves are used in the mains and are very desirable for isolated plants. When water is not required in these lines, they are shut off by means of a regular hydrant wrench, and when closed it is indicated at the top of the stand by the word "Shut," and when open the indicator reads "Open." A stand of this kind saves the annoyance of the regular underground shut-off inasmuch as they are accessible at all times.

The hydrants and indicator stands above described were used at the World's Fair, St. Louis, and are in fine condition.

Iron Rods, Sewer Pipe, Culverts, Wire Rope, Etc.

ROUND IRON RODS

Threaded and complete with nuts.

Lot No. 24. 2,000 lbs., ¾-inch, 12 feet long.
Lot No. 25. 6,000 lbs., ⅞-inch, 12 to 30 feet.
Lot No. 26. 5,000 lbs., 1-inch, 30 feet long.
Lot No. 27. 5,000 lbs., 1¼-inch, 20 to 30 ft.
Lot No. 28. 6,000 lbs., 1⅜-inch, 12 to 30 feet.
Lot No. 29. 6,000 lbs., 1½-inch, 15 to 30 feet.
Lot No. 30. 3,000 lbs., 1¾-inch, 20 to 30 feet.
Lot No. 31. 2,000 lbs., 2-inch, 30 feet.
Lot No. 32. Five tons of ¾-inch connecting rods in 10 to 14-foot lengths.
6,000 lbs. ½-inch round, 10 to 30 feet.
5,000 lbs. ⅝-inch round, 10 to 30 feet.
13,000 lbs. ⅝-inch twisted squares (Concrete bars) 15 to 25 feet.
11,000 lbs. ⅞-inch plain squares, 15 to 30 feet.
1,500 lbs. 2x½-inch R. E. Flats, 10 to 15 feet.
3,000 lbs. 1½x½-inch R. E. Flats, 10 to 15 feet.
500 lbs. 1x¼-inch R. E. Flats, 20 to 30 feet.
200 lbs. ¾x¼-inch R. E. Flats, 20 to 30 feet.
500 lbs. 1¼x5-16-inch R. E. Flats, 20 to 25 feet.
5,000 lbs. 4x5-32 inch S. E. Flats, 20 to 30 feet.
1,000 lbs. 1¼x⅛-inch S. E. Flats, 20 to 30 feet.
3,500 lbs. 1¼x5-16 inch S. E. Flats, 10 to 18 feet.
4,000 lbs. 1¾-x¼-inch S. E. Flats, 10 to 18 feet.

STEEL CONNECTING RODS

Lot No. 18B236.

Size.	Length.	Quantity.
¾"	10 to 15'	Approx. 2 ton.
1¼"	20 to 25'	Approx. 1½ ton.

BAND IRON

No. 200. One carload of band iron, from the St. Louis World's Fair, 2¾ inches in width, 8 feet to 20 feet in length. About No. 9 gauge. Practically new.

STEEL CULVERTS

We have a large stock of steel culverts, made of ⅜-inch metal, in lengths 14 to 20 feet. This made material is all in first-class condition. The following is a partial list of our stock:

Lot No. 1. 10 pieces, 14-inch diameter, 16 feet long, made of ¼-inch steel, weight, 40 lbs. to the foot.

Lot No. 2. 8 pieces, 14-inch diameter, 12 feet long, made of ¼-inch steel, weight, 40 lbs. to the foot.

Lot No. 3. 8 pieces, 20-inch diameter, 16 feet long, ¼-inch steel, weight, 65 lbs. to the foot.

Lot No. 4. 20 pieces, 8 to 16 feet in length, 30-inch diameter, made of ¼-inch steel, weight, 95 lbs. to the foot.

Lot No. 5. 6 pieces, 8 to 16 feet lengths, 36-inch diameter, made of ¼-inch steel, weight, 165 lbs. to the foot.

Lot No. 6. 8 pieces, 12 to 16 feet lengths, 42-inch diameter, made of ⅜-inch steel, weight, 180 lbs. to the foot.

Lot No. 7. 10 pieces, 12 to 16 feet lengths, 54-inch diameter, ⅜-inch steel, weight, 250 lbs. to the foot.

Lot No. 8. 12 pieces, 12 to 16 feet lengths, 60-inch diameter, made of ⅜-inch steel, weight, 265 lbs. to the foot.

Lot No. 9. 10 pieces, 14 to 18 feet lengths, 66-inch diameter, made of ⅜-inch steel, weight, 290 lbs. to the foot.

Lot No. 10. 12 pieces, 14 to 20 feet lengths, 72-inch diameter, made of ⅜-inch steel, weight, 325 lbs. to the foot.

VITRIVIED SEWER PIPE

Write for Prices.

We can furnish any amount of Tile Pipe and Fittings from the St. Louis Expos tion. Sizes from 4 to 30-inch. Delivery of some of this can be made from St. Louis. Write us your wants.

WOOD PIPE

10,000 feet 4½x4½ square pipe used for conduits at the St. Louis Exposition; 3-inch inside diameter. Slip joint connection. 6 foot lengths. Practical for water-conduit, etc.
Price, per foot.....**$0.03**

CAST IRON SLEEVE FOR TUBING

No. 948-A11. Sleeve for use in greenhouse and other heating. Lengths about 4½-inch.

For tubing—size, inches.....	3	4	6
Price, each.....	**7c**	**8c**	**11c**

SPIRAL RIVETED STEEL PIPE

This pipe is made of high grade sheet steel, spirally riveted, and combines the greatest strength with light weight of material. It is largely used for mining, draining and irrigation. It is much cheaper than common wrought iron pipe and is easily handled and transported.

Amt., Feet.	Size, In.	Thickness.
300	36	¼-in.
200	30	¼-in.
500	20	3-16-in.
200	16	3-16-in.

1 1-4 INCH IRON PIPE

No. 48-A9. 10,000 feet 1¼-inch, inside diameter, Iron Pipe; light weight. Approximate weight, 175 lbs. to the 100 feet. We cannot thread it. Lengths, 16 to 20 feet. In air condition only, more or less pitted. Suitable for railing, separators and general purposes.
Per foot.....**$0.0**

LARGE SOIL PIPE

No. 109. 300 lengths of 6, 8 and 10-inch cast iron soil pipes.

SWEDISH RIVETS

No. 25. 26 Kegs Swedish Iron Rivets, 9-16"x5½" and 9-16"x3" Large Button Heads.

WIRE ROPE

No. 14. We have upwards of 5,000 feet of ⅝-inch used wire rope. It is six strands, 19 wires to the strand, with hemp center. This wire is not good enough for hoisting purposes, but would be serviceable for many other uses. We will sell it just as it comes. Lengths ranging from 200 to 300 feet.
Price, per 100 feet.....**$1.00**

WIRE REEL

No. 321. 2,000 American Steel & Wire Co.'s Reels, ranging in sizes from 24" to 60" diameter and from 15" to 48" in width. These Reels are well made, being braced securely with ¾" rods and bolted. They are practically good as new, having seen but little service. Can be used for reeling rope, wire cable, copper wire, lead pipe, etc.
Price, according to size, from **$1.00** to **$4.00.**

SPECIAL OFFER ON SHEET IRON AND STEEL

The following lots are subject to prompt acceptance and prior sale. We do not have this material on hand at all times, and offer it just as it comes to us. You had better send us your order promptly.

BLACK SHEET IRON

WASTER SHEETS.

Lot No. 602. Under this heading we offer you regular sheet iron, known as Waster Sheets. By that we mean sheets with slight blemishes, either with a corner cut off, or with a blister or some other defect that would take it out of the class known as "prime sheets." They are practical for service and are offered at an exceedingly low price.

We cannot furnish any regular size sheets, or accept orders for them in that way, but we will furnish as near as possible to your requirements. Sheets run anywhere from 12″ to 26″ in width, and from 15″ to 10′ in length. Our price per 100 lbs. for the various gauges, are as follows:

Gauge Number.	Price per 100 lbs	Gauge Number.	Price per 100 lbs.
22	$2.00	27	$2.15
24	2.00	28	2.25
25	2.05	29	2.35
26	2.10	30	2.45

GALVANIZED WASTERS

Lot No. 603. They are of the same quality as the black sheets described above, and the defects are of the same character. Our quotations on them are as follows:

Gauge Number.	Price per 100 lbs.	Gauge Number.	Price per 100 lbs.
24	$3.00	27	$3.50
25	3.20	28	3.70
26	3.30	30	4.60

No. 28 GAUGE SHEET IRON

Lot No. 604. We have in stock several carloads of new No. 28 gauge sheet iron, which was slightly damaged in the recent flood, that is, some of the sheets are more or less muddy, and a few of them have turned edges, but as a general proposition they are clean stock. Size of these sheets is 18x24″, 20x24″, 24x24″. Price per 100 lbs. $2.40

GALVANIZED CORRUGATED ROOFING

Lot No. 605. 500 squares of No. 27 gauge, brand new, galvanized, corrugated roofing, width 24″, lengths from 6 to 8′, all in 3″ corrugation. Price per square, f.o.b. cars Chicago $3.50

APPROXIMATE WEIGHTS

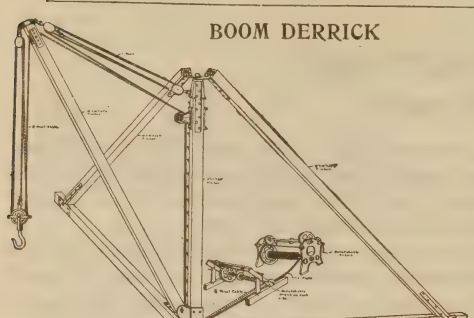
The following is the usual standard gauge of weights:

Gauge.	Thickness.	Decimals.	Weight.	Gauge.	Thickness.	Decimals.	Weight.
22	1–32	.03125	1.25	27	11–640	.0171875	.6875
23	9–320	.028125	1.125	28	1–64	.015625	.625
24	1–40	.025	1.	29	9–640	.0140625	.5625
25	7–320	.021875	.865	30	1–80	.0125	.5
26	3–160	.01875	.75				

REVOLVING JIB CRANE

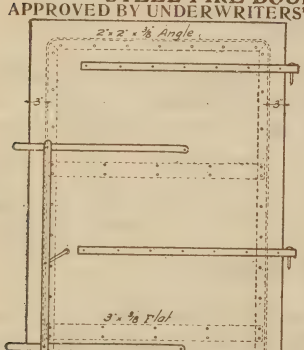
No. 8. 20 Ton Revolving Jib Crane. Made of 10, 12 and 15-inch Channels, latticed with 3x⅜ inch double bracing. It is 24 feet high, length of boom 21 feet with a swivel range of 14 feet 9 inches. Complete with 3-inch sprocket chains, and a ¾-inch steel cables. Heavy steel carriage and all necessary sprockets and gear wheels. Has two detachable handles and swivel with large hook.

BOOM DERRICK



No. 9. 7 Ton Boom Derrick with two separate hand winches. One to operate boom and one to operate swivel and hook, fitted with ¾ and 1-inch steel cables. Made of 10-inch and 11-inch timbers. The center riser is 24 feet high and has steps 10 inches apart. With two braces 38 feet 6 inches long. Has a 37-foot boom, and all necessary tackle blocks, ropes, swivel and large hook.

STEEL FIRE DOORS. APPROVED BY UNDERWRITERS' ASSOCIATION.



We have a number of Steel Fire Doors, which we obtained in one of our recent wrecking operations. They are made of ⅛" steel plates. The inside has a 2" x2"x⅛" angle running all around the edge of the door, three in. from the end. They also have two ⅜"x3" straps running across the door. On the outside there are three straps running almost the full width of the door. The lock is a double lever worked by a handle which fastens into the frame when closed. These doors are complete with frames and are in the following sizes:

8'6" high, 4' wide, ⅛" Steel Plate	$15.00
8'4" high, 4' wide, ⅛" Steel Plate	15.00
7'2" high, 4' wide, ⅛" Steel Plate	12.00
7'2" high, 3' wide, ⅛" Steel Plate	10.00
6'7" high, 3' wide, ⅛" Steel Plate	10.00

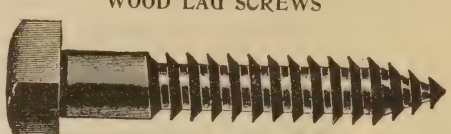
FERRIS WHEEL SHAFT

No. 12. This Shaft was taken from the famous Ferris Wheel, which was one of the principle amusement features of the Chicago Columbian Exposition of 1893 and at the St. Louis World's Fair, 1904. It is a hollow steel shaft 45 feet long, 31 inches diameter at each end, swelling to 32 inches in the center. It has 6 grooves 1½ inches wide, ½ inch deep and 14⅝ inches apart. The following is a correct analysis of shaft: Phosphorous, .024; Carbon, .026; Manganese, .055; Tensile Strength, 71,500; Elongation, 25 per cent. in 8 in. Reduction varies 55 per cent

SPRINKLER HEADS

No. 13. 700 Sprinkler Heads which were used in the various World's Fair buildings at St. Louis. They are stamped 165 degrees and are in good condition.

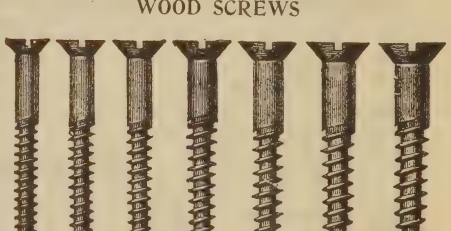
WOOD LAG SCREWS



Assorted Sizes and Lengths.

	Price per lb.
Mixed, any quantity, not less than 10 lbs.	$0.04
In lots of 25 lbs.	.03½
In lots of 50 lbs.	.03¼
In lots of 100 lbs.	.03

WOOD SCREWS



New Wood Screws, all sizes and lengths, mixed together, all in perfect condition. In any quantity, but not less than 5 lbs.

Per lb. $0.10

Brass Wood Screws, all sizes, mixed together. In any quantity, not less than 2½ lbs.

Per lb. $0.22

MIXED RIVETS. BRAND NEW.

Wagon makers', tinners', cornice, barrel, shovel, cooper, belt, stove and all kinds. They consist of round, flat, oval heads, etc.; are about ⅛ to 4½ inches long. On account of being mixed, we make the following low prices:

Per lb.		Per lb.	
200 lb. lots	$0.02	50 lb. lots	$0.03
100 lb. lots	.02½	25 lb. lots	.03½

TURNBUCKLES

No.	Quantity.	Size, Inches.	Price, each.
990	500	½	$0.23
991	300	⅝	.25
992	400	¾	.33
993	100	⅞	.38
693	125	1	.43
694	130	1⅛	.60
695	99	1¼	.75
696	66	1⅜	.80
697	66	1½	.90

MISCELLANEOUS GOODS

From the nature of our business we accumulate a vast quantity of material which it is practically impossible to correctly list, such as machinery, pulleys, building material, furniture, bric-a-brac, tools, hardware, etc., etc. Of many such items we may have but one or two of a kind. The list following under the head of "MISCELLANEOUS" is an attempt to gather as best we can some of these various items. It's a list well worth your time and attention. Down along some of these columns you will find much material you can use to advantage at very low prices. **All of this material is subject to prior sale. Please Order by Lot Number.**

SHOEMAKERS' NAILS

No. MR62. 500 pounds mixed Shoemakers' nails, mostly ⅛x15 inch. Price per pound...**$0.03**

LAG SCREWS

No. MR64. 10,000 pounds Lag Screws, one size in a case. New, but some of them are rusty. Sizes as follows: 5-16x3½, 5-16x3, 5-16x4, 5-16x5. Price per lb.....**$0.04**

STREET WASHER REPAIRS

No. 331. A complete stock of repairs for Murdock Hydrants and Street Washers. Ask for prices.

FIRE EXTINGUISHERS

No. MR70. One copper 3-gallon Still Alarm Fire Extinguisher. Price.....**$6 00**

BACK WATER TRAPS

No. 296. One 8-inch Palmer's, Back Water Trap, new. Price.....**$5.00**

No. 297. Two 4-inch Palmer's, Back Water Traps, new. Each.....**$2.50**

SMOKE STACK PLATES

No. M50. 5 carloads of heavy smoke stack plates; size, 5x16½ in.; 3-16 and ¼ in. thick; punched and good as new for further service. Write for price.

RANGE BOILERS

No. MR78. 100 second-hand Galvanized Range Boilers, not guaranteed as to the test they will stand, which we offer as follows:

30 gallons.....each, **$4.00**
35 gallons.....each, **4.50**
40 gallons.....each, **5.50**
50 gallons.....each, **6.50**
60 gallons.....each, **7.00**

GAUGES

No. MR79. One set of Gauges on wooden shield, size of shield 15x24 inches; made by James P. Marsh & Co. One elevator pressure from 0 to 200 pounds; one steam boiler from 0 to 200 pounds, one feeding system from 0 to 30 pounds. Size of Gauges 6-inch.
Price.....**$3.00**

KITCHEN SINKS

No. MR80. 250 glazed porcelain Kitchen Sinks, size 18x30, 20x30, 22x30, and other sizes. These are fitted with waste hole and rubber plug and are suitable for hog troughs or other purposes of this kind. The glazing is defective in spots.
Price, each.....**$1.50**

BATH TUBS

No. MR 81. 25 cast iron Bath Tubs, roll rim, without any enamel on the inside. They are painted two coats and suitable for water troughs and can also be used for bath tubs.
Price, 5 feet long, each.....**$6.00**
Price, 5½ feet long, each.....**7.00**

DESKS

No. MR82. 100 regular College Desks, without seats, complete with ink wells; top lifts up, big compartment for books, etc. Made of cherry, turned legs, extra strong, intended for boys about 14 to 18 years of age. They are worth $5.00 regularly and we will make you a price on them of **$1.50** for single Desks and **$1.65** for double.

HORSES

No. MR83. 250 Horses, used in hotels for supporting tables; also used in restaurants, banquet halls, etc. Price, each.....**$0.25**

SORGHUM MILL.

No. 854. One Triple Geared Sorghum Mill with three rolls, one roll 18" diameter by 9" face, and two rolls 9" diameter by 9" face; all complete with driving pulley, mounted on heavy wood frame, in first class condition.

BOILER TUBES

No. MR86. 2,000 feet second-hand Boiler Tubes, size 1¼-inch. Price per ft.....**$0.04**

No. MR87. 500 feet 1½-inch second-hand boiler tube. Price per ft.....**$0.05**

CASING

No. MR88. 1,500 feet 6⅝-inch outside diameter wrought iron lap welded Casing, not threaded; suitable for columns or for conducting water where no connection is required. Price per foot....**$0.25**

PACKING

No. MR10. 5,000 pounds of large size, square branded, flax packing and round rubber cord packing for high pressure work. Size 1 inch and larger. Per pound.....**$0.04**

COUPLINGS

No. MR96. 30,000 wrought iron Pipe Couplings, ½ inch. New but in fair condition.
Price, each.....**$0.01½**
Per dozen.....**.12**
Per gross.....**1.25**
Special price in large quantities.

NIPPLES

No. MR97. Long Screw Nipples, brand new, in good condition.
Size ¾x4 inches each.....**$0.02**
Size 1 x4½ inches each.....**.03**
Size 1¼x5 inches each.....**.04**

No. MR98. 100 10-inch Pipe Couplings in good condition. 100 12-inch Pipe Couplings in good condition. Write for prices

RUBBER BELTING.

No. M3445. Ten rolls of 22", second hand rubber belting, very heavy, 4 and 5 ply; formerly used for an elevator, adapted for livery stable or runway purposes.
Per pound.....**$0.04**

BOILER CLEANERS.

No. M46. Seven Harrison Boiler Cleaners or Purifiers.
Each.....**$15.00**

No. M47. 100 Cast Iron Coal Hole Covers with bull's-eye glass; round and octagon shapes; any size desired. Write for complete list and low prices.

CONDENSERS.

No. M50. Lot of Ammonia Condensors, spiral and horizontal, both submerged and atmospheric, all sizes.

CONVEYORS.

No. M3517. 50' of 12" Spiral Conveyor.
200' of 10" Spiral Conveyor.
200' of 8" Spiral Conveyor.
100' of 6" Spiral Conveyor.

LINK CHAIN.

No. M51. One piece Double Link Chain, 25 buckets, 6x10.....**$10.00**

No. M52. One piece of Link Chain, 15 buckets, 4x6.....**$4.00**

No. M53. One piece of Link Chain with 11 buckets, 4x6.....**$3.00**

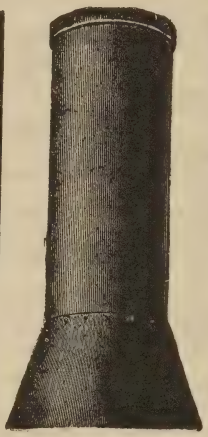
No. M54. One piece of Link Chain with 47 buckets, 7x12.....**$25.00**

No. M58. One piece of Link Chain with 10 buckets, 12x6.....**$5.00**

Smoke Stacks and Smoke Connections Always on Hand

We make them ourselves, and can save you considerable on anything in this line. We can give you any diameter—height—style or guage of iron. Write us for anything you may want, that is not listed below.

We Guarantee the Quality of these Smokestacks



We Can Make Any Kind of Smoke Connection You May Desire. Send Specifications for Our Estimates.

SMOKESTACKS

Prices Subject to Change Without Notice

Diam. of Stack, in.	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	46
Per ft. No. 16 Iron	$0.47	.51	.54	.58	.60	.65	.70	.72	.87	.94	1.00	1.08						
Per ft. No. 14 Iron	.65	.70	.72	.80	.88	.90	.98	1.05	1.12	1.25	1.35	1.45	1.55	1.65	1.75	1.85		
Per ft. No. 12 Iron		.83	.95	1.00	1.05	1.15	1.20	1.25	1.35	1 40	1.45	1.65	1.75	1.85	1.95	2.05	2.10	
Per ft. No 10 Iron			1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.20	2.35	2.45	2.60	2.75	3.00	3.45
Gal. Wire Rope for Guys, per ft.....	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02½	.02½	.02½	.02½	.02½	.03	.03	.03
Damper in Stack, Extra.....	1.80	2.00	2.15	2.15	2.15	3.00	3.00	3.00	3.00	3.00	3.00	4.35	4.35	4.35	4.35	4.35	5.00	5.75
Umbrella top for Stack, extra.....	1.80	2.00	2.15	2.15	2.15	3.00	3 00	3.00	3.00	3.00	3.00	4.35	4.35	4.35	4.35	4.35	5.00	5.75

For Elbow in stack, add cost of 8 feet of stack.

Can furnish any length desired.

We can furnish smoke stacks for dwellings in all lengths and sizes.

As a means of saving on freight charges, we advise the shipment of smoke stacks "knocked down." When so ordered, we punch holes and furnish rivets so that anyone can set them up.

THESE PRICES ARE ABSOLUTELY NET

Machinery of Every Kind

A FEW FACTS ABOUT OUR REBUILDING PLANT

We wish to call to your notice that we are continually buying machinery of every description, and it is an every day occurrence for us to purchase complete power plants of all kinds.

A very large percentage of the different plants purchased by us are shipped direct to our works, and put through our different shops; thoroughly overhauled, and in fact re-built from the ground up, and restored to practical machinery for further use. We employ on this work the best of mechanics and mechanical engineers.

All of the machinery is brought strictly up to date, and perfected in every detail. All missing parts are renewed, defective or worn parts are either repaired, which makes them as good as new, or replaced with entirely new parts.

In our great establishment of over forty acres, the most intricate machines constructed, are taken apart, renovated and improved, reassembled and sent out GUARANTEED in perfect running order.

Write and tell us what you are looking for in the machinery line. Our stock is constantly changing, which makes it almost impossible to classify in our catalog, but if you will write us, advising us the different kinds of machinery you are in the market for from time to time, our corresponding force will be pleased to give you all information possible with special prices.

We are confident that we can supply whatever is wanted in steam, electrical or compressed air machines. We can fit you out with a complete power plant from one end to the other, and should we have the opportunity of doing so, we feel confident that everything will be satisfactory in every respect.

SOME OF THE LARGE PLANTS WE HAVE PURCHASED AND DISMANTLED.

Chicago City Railway, Cable Power Plants, Chicago, Ills.

Armour & Co., Union Stock Yards, Chicago, Boiler Plant.

Marion Pulp Company, Marion, Ind., Steam Plant.

Denver Street Railway Co., Denver, Colo., Steam Plant.

Allegheny County Light Co., Pittsburg, Pa., Westinghouse Equipment.

Goyer Alliance Refinery, Belle Alliance, La., Complete Plant.

Shelbyville Tool Company, Albany, Ind., Complete Plant.

And several other plants to numerous to mention.

Some of these power plants have been sold as they stood and shipped direct to our different customers, and are now busily turning the wheels of industries in other lines.

We also purchase other machinery just as good from small plants around the country, and have a very large stock on hand at the present time from which we invite your selection. We can give you high class, up to date machinery at low prices. Remember that we guarantee all machinery sent out to be in strictly A1 running order.

Let us have your inquires for special pieces, as we feel confident that we can save you considerable money, and offer you just what you are looking for.

Horizontal Tubular Boilers

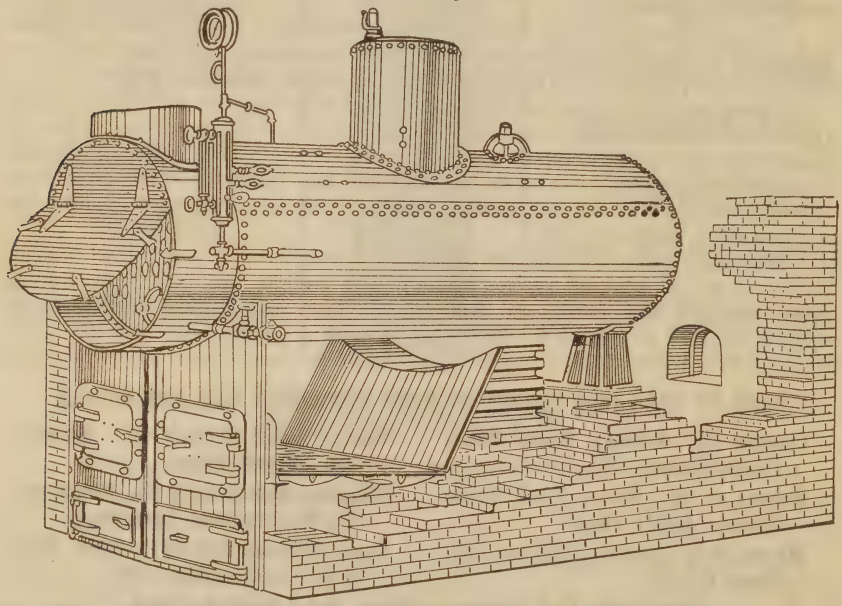
Brand New

All plate used in our horizontal boilers is flanged steel, stamped by the Makers as such, having 60,000 lbs. stencilled strength, and guaranteed by the makers to turn down double cold without fracture. From this you can readily gain an idea as to the quality that we furnish in these boilers. All boilers have horizontal seams double riveted. Tubes are very carefully selected. The number of tubes in each boiler is governed by the most economical use of heating surface obtainable, and in no case are the tubes placed so close together that the strength of the head is decreased or the circulation of water impaired. Boilers are all tested to a hydrostatic pressure of 150 lbs. to the square inch.

The Following Fixtures are Furnished

Front, complete with all castings, grates, grate bars, rear arch bars, ash door and frame, Oval stack plate, binder bars and rods, safety valve, steam gauge, water gauge, gauge column attached, three gauge cocks, blow off valve, check valve, stop valve, whistle and pipe, smoke stack and guy rods. We do not furnish steam or exhaust pipe.

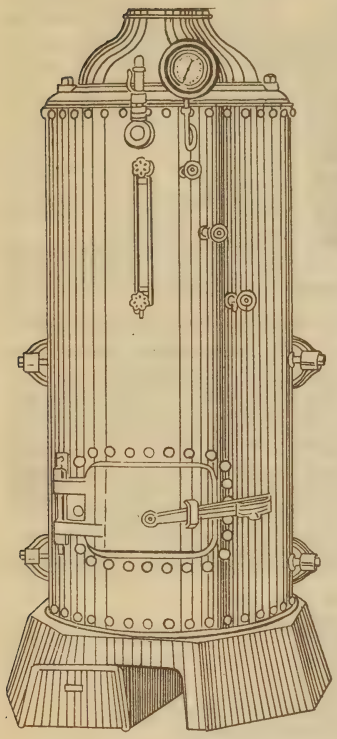
Shipments to be made from Factory in Pennsylvania.

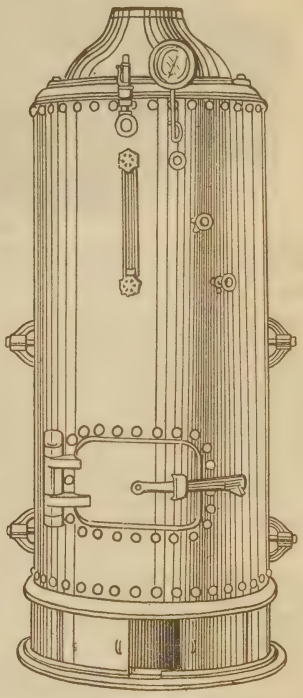


Number of Size	18	19	20	22	24	25
Horse-power as usually rated	10	12	15	20	25	30
Diameter of shell, inches	30	30	36	36	42	44
Length of Tubes, feet	7	8	8	10	10	10
Diameter of Tubes, inches	3	3	3	3	3	3
Number of Tubes	20	20	22	26	38	44
Diameter of Dome, inches	18	18	20	20	22	22
Height of Dome, inches	20	20	22	22	24	24
Thickness of Shell, inches	1/4	1/4	1/4	1/4	9/32	9/32
Thickness of Dome-plate, inches	1/4	1/4	1/4	1/4	9/32	9/32
Thickness of Heads, inches	3/8	3/8	3/8	3/8	3/8	3/8
Square Feet of Heating Surface	130	160	191	270	380	445
Length of Grates, inches	32	32	35½	41½	41½	47½
Width of Grates, inches	30	30	36	36	42	44
Diameter of Stack, inches	14	14	16	16	20	20
Length of Stack, feet	28	28	28	35	35	35
Weight of Boiler and Britchen, pounds, about	1,600	1,900	2,600	3,000	4,100	4,600
Weight of Boiler and Half-arch Fixtures, pounds, about	3,100	3,400	4,300	5,000	6,600	7,500
Price	$160.00	$171.00	$215.00	$245.00	$350.00	$385.00

VERTICAL BOILERS

BRAND NEW





These boilers are made with flanged steel heads and shells of which have a stencilled strength of 60,000 lbs. to the square inch. All sides are well braced with stay bolts, and all boilers 30″ and upwards in diameter, have their seams double riveted. The fixtures furnished are base, grates, hood, steam gauge, glass water gauge, gauge cocks, either pop or safety lever valves, blow off valve, check and stop valve. Whistle, stack and piping are not included with boilers but these can be furnished at very low prices. Our boilers are all tested to a hydrostatic pressure of 150 lbs. to the square inch, which insures their being absolutely tight and sound in every respect.

Shipment will be made from our Factory in Pennsylvania.

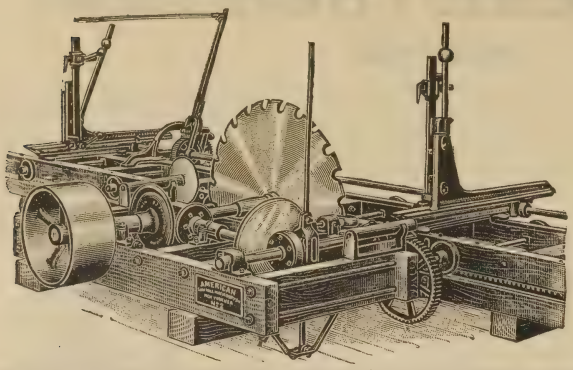
Can furnish with either round or octagon base.

TABLE OF DIMENSIONS AND PRICE LIST.

Number of Size	0	A	B	1	2	3½	4	5	6
Horse-power as usually rated	1½	2	3	4	5	6	7	9	11
Diameter of Boiler, inches	20	20	20	24	24	27	30	30	30
Height of Boiler, feet	3	3½	4	4	5	5	5	6	7
Diameter of Furnace, inches	16	16	16	19	19	21	24	24	24
Height of Furnace, inches	18	18	18	23	23	26	26	26	26
Thickness of Shell, inches	7/32	7/32	7/32	1/4	1/4	1/4	1/4	1/4	1/4
Thickness of Heads, inches	5/16	5/16	5/16	3/8	3/8	3/8	3/8	3/8	3/8
Thickness of Furnace Flate, in	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2
No. of Tubes (all 2 in. in diam.)	16	19	19	24	24	30	42	42	42
Length of Tubes, inches	18	24	30	25	37	34	34	46	58
Square feet of Heating Surface	18	25	30	39	51	59	75	96	107
Weight of Boiler without Fixtures, lbs., about	350	450	550	900	1000	1100	1200	1400	1600
Weight of Boiler with Fixtures, lbs	450	550	650	1300	1400	1500	1800	2000	2200
Price	$40.00	$45.00	$62.00	$71.00	$78.00	$92.50	$110.00	$122.00	$146.75

AMERICAN SAW MILL MACHINERY.

The Synonym of Merit, Worth, Advancement, Improvement.



Every machine is set up and carefully tested, and when it leaves our factory is known to be complete and in proper working condition; hence, if properly set up and operated without prejudice, we warrant them to give entire satisfaction.

If a machine should fail to start off satisfactorily, it is generally because the operator is not familiar with it, and it is not properly set up and adjusted. In such cases, if the purchaser will notify us and state as near as possible the trouble, we can generally give advice necessary to remedy the difficulty.

The Husk Frame and Carriage are made of the best selected Southern Yellow Pine.

The Mandrel is made of the best grade of steel, turned and ground perfectly true, with well proportioned collars. The lug pins are fitted in an improved manner so that they can easily be removed right at the mill if they should become sheared off.

The Nut is so made that the threads cannot be stripped or bruised and the saw can be easily removed without moving the guide.

Saw Guide is of improved design, with large throat, can be used either right or left hand, is adjustable while saw is in motion, and can be easily thrown out of the way for removing or changing saws.

Our Variable Friction Feeds are the simplest, yet most durable, perfect and effective ever devised. It it positive and responds instantly to the slightest movement or pressure of the feed lever. It is this feature which distinguishes our mills from all others, makes them so very light running and adapted to use with small power of all kinds. The sawyer with one hand, has absolute control of the mill at all times, can vary the feed to correspond with the power or the size and quality of timber to be cut, easing down for a hard place and instantly increasing the feed again as quick as it is past.

Head Blocks and Knees. Our Head Block Bases are cast in one piece, and in such form as to insure the greatest strength. They are accurately planed to gauges and the knee carefully fitted so that it will slide freely, yet without lost motion. They open for actual use full width as per specifications. They are heavy and strong, have graduations full length and provided with convenient setting gauge.

The Set Works. Our "Ideal" set works and quick receder are now used on our Standard Mills Nos. 1 to 5, inclusive. The set works are guaranteed accurate and positive, and the receder, operated by the same lever, is of immense value as a time saver. A straight pull for either setting or receding. No tiresome twisting motion for releasing pawls.

SPECIFICATION OP No. 1 STANDARD SAW MILL.

Husk frame, 7′ long 3′ wide; timbers, 3½″x7½″.
Mandrel, 2 3-16″ diameter, 4′ 4″ long with pulley 20″x10″.
Length of acrriage, 16′, width, 26″.
Length of rack beam, 22′.
Size of carriiage timbers, 3½″x5½″.
Number of trucks, 4, with 6″ wheels and 1½″ axles.
Length of steel track, 40′.
Number of head blocks, 2, with dogs.
Head blocks, open, 34″.
Length of set shaft, 14′.
Weight of mill, 2,100 lbs.
Weight of wood track stringers, 450 lbs.
Capacity, 7,000 to 8,000 feet per day.

SPECIFICATIONS OF No. 2 STANDARD SAW MILL.

Husk frame, 7′ 6″ long, 3′ 6″ wide; timbers, 3½″x9½″.
Mandrel, 2 5-16″ diameter, 5′ long, with pulley 20″ x10″.
Length of carriage, 20′; width, 30″.
Length of rack beam, 26′.
Size of carriage timbers, 3½″x5½″.
Number of trucks, 6, with 7″ wheels and 1 ¼″axles.
Length of steel tracks, 48′.
Number of head blocks, 2, with dogs.
Head blocks, open, 38″.
Length of set shaft, 16′.
Weight of mill, 3,000 lbs.
Weight of wood track stringers, 550 lbs.
Capacity, 10,000 feet per day.

SPECIFICATIONS OF No' 3 STANDARD SAW MILL

Husk frame, 8′ long, 4′ wide; timbers, 4½″x11½″.
Mandrel, 2 7-16″ diameter, 5′ 6″ long, with pulley 20″x12″.
Length of carriage, 24′, width, 36″.
Length of rack beam, 32′.
Size of carriage timbers, 4½″x6½″.
Number of trucks, 6, with 8″ wheels and 1 7-16″ axles.
Length of steel track, 56′.
Number of head blocks, 2, with dogs.
Head blocks, open, 44″.
Length of set shalft, 20′.
Weight of mill, 3,900 lbs.
Weight of wood tracks stringers, 650 lbs.
Capacity, 12,000 feet per day.

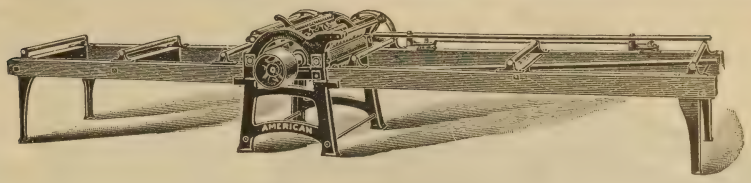
SPECIFICATIONS OF No. 4 STANDARD SAW MILL.

Husk frame, 8′ 6″ long, 4′ wide; timbers, 4½″x11½ .
Mandrel, 2 11-16″ diameter, 5′ 6″ long, with pulley 20″x12″.
Length of carirage, 24′, width, 40″.
Length of rach beam, 32′.
Size of carriage timbers, 5½″x5½″.
Number of trucks, 6, with 10″ wheels and 1 7-16″ axles.
Length of steel track, 56′.
Number of ehad blocks, 2, with dogs.
Head blocks, open, 48″.
Length of set shaft, 20′.
Weight of mill, 4,500 lbs.
Weight of wood stringers, 650 lbs.
Capacity, 15,000 to 20,000 feet per day

SPECIFICATIONS OF No. 5 STANDARD SAW MILL.

Husk frame, 9′ long, 5′ wide; timbers, 5½ x11½″.
Mandrell, 2 15-16″ diameter, 6′ long, with pulley 24″x14″.
Length of carirage 24′, width, 44″.
Length of rach beam, 32′.
Size of carriage timbers, 5½″x7½″.
Number of trucks, 6, with 12″ wheels, 1 11-16 axles.
Length of steel track, 56′.
Number of head blocks, 2, with dogs.
Head blocks, open, 52″.
Length of set shalf, 20′.
Weight of mill, 6,000 lbs.
Weight of wood track stringers, 1,000 lbs.
Capacity, 20,000 to 25,000 feet per day.

American "Junior" Gang Edger.



FULL LENGTH VIEW.
Shifting levers are securely held in position by ratchet.

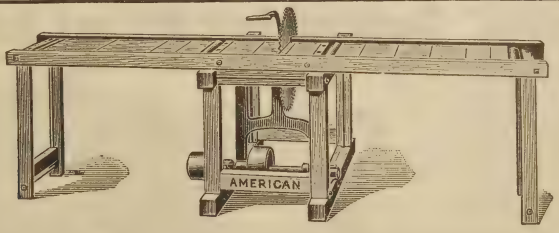
SPECIFICATIONS.

Table rolls of cold steel with iron bearings
Steel mandrel, $1\frac{15}{16}$" with babbitted boxes.
Driving pulley, 10" diameter, 8" face; speed about 1,500 revolutions per minute.
Feed pulleys, 18"x4".
Driven feed rolls, 3" diameter. Pressure rolls, $5\frac{1}{2}$" diameter.
Saw, 16" diameter with 4" hole.
Extreme length and width, 18'3" by 47".
Extreme width between guides, 33".
Greatest distance between saws (3 saw machine) 19".
Greatest distance between saws (2 saw machine) 23".
Smallest distance between stationary and adjustable saw, 2".
Weight, single roll machine, net, 1,425 lbs. Gross, 1,700 lbs.
Weight, double roll machine, net, 1,575 lbs. Gross, 1,850 lbs.
Cubic contents boxed for export, 72 cubic feet.

State whether single or double pressure roll is desired and whether a 2 or 3 saw edger; can furnish without saws or with solid or inserted tooth saws.

In ordering, specify if a right or left hand machine is wanted.

American "Perfection" Table Cut-Off-Saw.



Every well equipped saw mill, planing mill, or other wood-working establishmnet must have one or more cut-off saws, either of the swinging or table type.

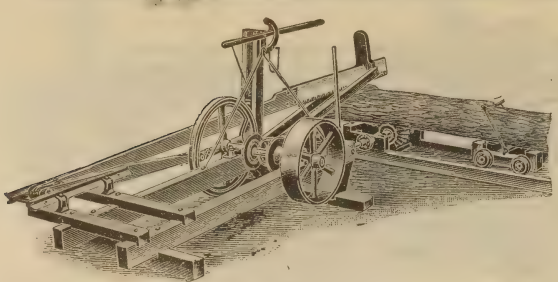
To meet the increasing demand for a low priced, yet good machine of the latter type, we offer our "Perfection" Table Cut-off Saw shown in the accompanying cut, which has been carefully designed and is well made throughout of best materials and workmanship.

The frame is made of seasoned hard wood strongly bolted together, the table is 20" wide and 10' long, being fitted with four 3" idle rolls and a guide rail at the rear providing for easy handling of timber and accurate cutting.

The mandrel is of best grade cold rolled steel, runs in babbitted boxes and is carried in a strong, solid cast iron, swinging frame which is trunnioned to the countershaft below, thus insuring rigidity and durability. Any size saw can be used from 18" up to 24".

Timbers in main frame, $3\frac{1}{2}$"x$3\frac{1}{2}$".
Timbers in table frame, 2"x4".
Mandrell (steel), $1\frac{7}{16}$" for saws with $1\frac{1}{4}$" hole.
Mandrell pulley, 4"x4".
Size of saw furnished, 20".
Pulley on countershaft, 6"x6". Speed 1,500 rev.
Floor space required, 4'x10'.
Weight, net, 460 lbs.; gross, 575 lbs.
Packed for export, one crate 28 cubic feet.

"American" Champion Friction Feed Drag Saw.



This machine, as its name indicates, is the Champion among Drag Saws, having decided advantages over all others on the market. It is strong and durable, simple in construction, easy to operate and a most rapid worker.

The main frame is 26″ wide, 8½′ long and is made of 3½x5½″ seasoned hard wood strongly framed together, securely bolted and braced.

The track is 27″ wide, 16′ long, made of 2¾x4″ timbers well framed together.

The Friction Feed is very simple, yet positive and effective. It will start, stop or reverse instantly by very slight motion of the feed lever, without any effort on the part of the operator. It will not stick or get out of order and will last for years. This enables the operator to feed the logs ahead or back at will as much or little as desired, and stop at any point without running back or losing time. This feature alone puts the "Champion" ahead of any other Drag Saw in the market, yet it has every practical advtanage that can be desired in a machine of its kind.

The Balance Wheel is large and heavy, and counter balanced, imparting a strong steady motion, and is arranged for changing the stroke from 16″ to 20″ or 24″.

The Log Truck is very substantial, having steel axles and two dogs for securely holding the logs.

The Saw is raised with one hand and the friction feed operated with the other, thus changing and setting for a new cut without slowing down or stopping. A strong, reliable saw guide is also provided.

Unless otherwise ordered each machine is furnished complete with 24x6″ driving pulley, log truck, power rolls, tumbling rod with two Universal Couplings, 16′ of track and one 5′ 6″ saw.

Tight and loose pulleys can be furnished if so desired at small additional price.

When operated by sweep horse power the driving shaft is fitted with Universal Coupling for tumbling rod instead of driving pulley.

We can supply this Drag Saw without power feed and with a Ratchet Lever to operate the feed rolls, thus making a most desirable hand feed machine at very low price.

Capacity: 30 to 40 cords of wood per day, depending on kind of wood, power and speed.

Power required: Two to four horse power will operate machine to good advantage; more power will give greater capacity.

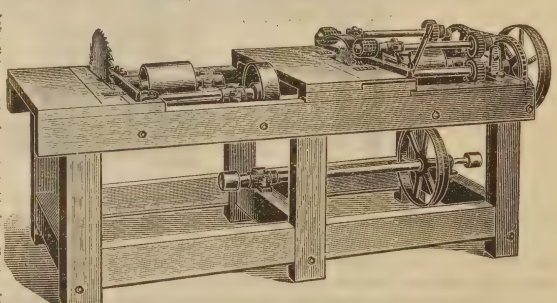
Speed recommended: 125 to 175 strokes per minute.

Length of stroke may be adjusted to 16″, 20″ or 24″.

Weight complete, 1,150 pounds. Weight packed for shipment, 1,300 pounds. Weight packed for export, 1,450 pounds; 51 cubic feet.

PRICES ON APPLICATION.

"American" Combined Lath Mill and Bolters.



This cut shows our Combined Gang Lath Mill and Bolter, which is one of the best machines of the kind on the market, and is very popular with saw mill men in every part of the country.

The Frame is made of hard wood, mortised and tenoned, and securely bolted together, making it very substantial and durable.

The Arbors are of best grade steel, run in self-oiling boxes which are cast solid with the iron husk frame, to which all the working parts are attached, thereby keeping everything in line, and avoiding the heating of the bearings.

The Lath Mill is fitted with two sets of power feed rolls, one set in front and one behind the saws.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired. The arbor of the Lath Mill may be fitted for any number of saws, from three to six, as may be ordered, but usually only three saws are furnished.

Changing Saws is very easily and rapidly done by removing a section of the table.

Burning Saws is prevented by a lever which raises both top feed rolls, permitting the stock to be drawn back, as it is impossible to prevent the stock becoming occasionally wedged in the saws, before the machine can be stopped. For this reason it is important to always keep the saws sharp and set. Capacity 30,000 lath per day.

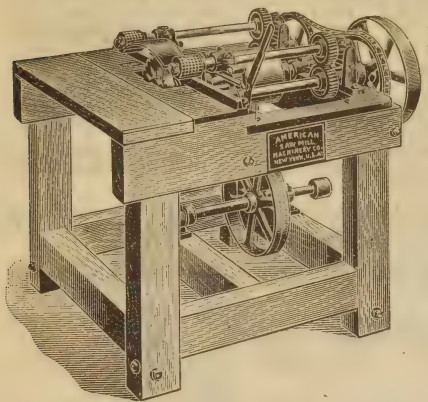
The Bolter is furnished with one wide Feed Roll. **The Guide** is adjustable, and can be instantly set for any width required. Pressure Roll furnished for Bolter when desired at small additional cost.

Frame, 8′ long, 37″ wide, 27″ high.
Lath saws, 10″. Bolter saws, 22″.
Driving pulleys on both mandrels, 8″x8″.
Speed of lath saws, 2,700; bolter saw, 1,400.
Weight of combined machine, net, 1,050 lbs.
Weight packed for export, gross, 1,350 lbs.
Cubic measurement, about 40 cubic feet.

Can furnish the above machine complete, as follows:
3 Lath Saws and 1 Bolting Saw.
4 Lath Saws and 1 Bolting Saw.
5 Lath Saws and 1 Bolting Saw.
6 Lath Saws and 1 Bolting Saw.

Extra for Pressure Roll for Bolters.

AMERICAN GANG LATH MACHINE.



This cut shows our Improved Gang Lath Mill, which is the same construction as the combined machine without the Bolter.

The Mandrel is of the best grade steel, turned and polished, and runs in babbitted boxes and may be fitted for any number of saws, from three to six as may be ordered, but usually only three saws are furnished.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired.

Changing Saws is very easily and rapidly done by removing a section of the table.

Burning Saws is prevented by a lever which raises both top feed rolls, permitting the stock to be drawn back. **It it important to always keep the saws sharp and set.**

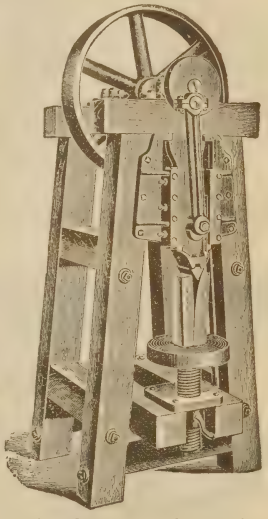
Machine can be fitted to cut pickets, chair stock or any small squares from 1¼"x1¼" up to 2"x2" for which extra charge will be made.

CAPACITY 30,000 to 40,000 LATHS PER DAY.
Can furnish with 3 saws.
" " " 4 "
" " " 5 "
" " " 6 "

DIMENSIONS.

Frame, 37" long, 37" wide, 27" high.
Lath saws, 10".
Driving pulleys on mandrel, 8"x8".
Speed of lath saws, 2700.
Weight of machine, net, 550 lbs.
Weight packed for export, gross 700 lbs.
Cubic measurement, about 25 cubic feet.

"AMERICAN" WOOD SPLITTER OR POWER AXE.



This cut represents our wood frame Power Wood Splitter, but when desired we build the machine with iron frame.

It is designed to withstand the strains to which such a machine is necessarily subjected, and will soon pay for itself in any wood yard or kindling wood factory where much splitting is to be done. Hard, knotty maple, oak, pine, or other kinds of wood can be easily split. A single machine will split 4 or 5 cords per day.

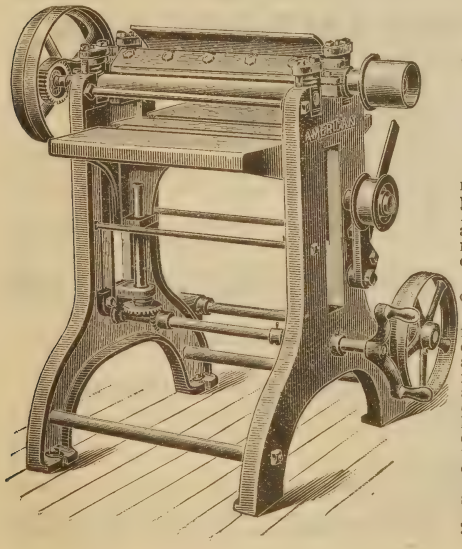
The Wood is held in an upright position by the hands of the operator, the lower end resting on the bed plate, and merely turned around as the splitting is done. It can be erected on any strong floor or timbers embedded in the ground.

The Bed Plate has ample adjustment giving the machine a range for splitting wood 8" to 18" long.

The Crank Shaft is made of steel and runs in babbitted self-oiling boxes. The driving pulley weighs about 250 pounds and has heavy rim so as to give plenty of momentum. It is 32"x6", and should run 150 revolutions per minute. One to two horse power required to operate successfully.

Net weight, 1,230; gross weight, 1,450; cubic contents, 30 c. f.

Can furnish single or double machine.



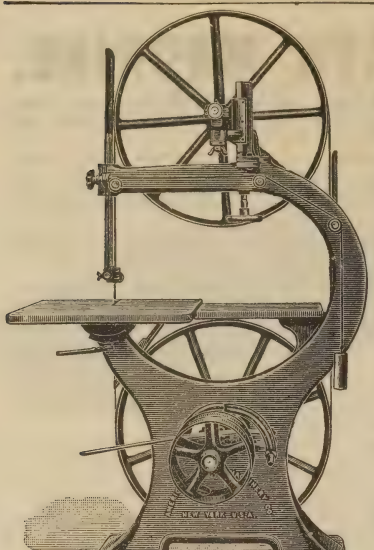
"AMERICAN" JEWEL PLANER.

This planer was designed to meet the requirements of those desiring a good but light and low priced single surfaced planer. It is lighter than our Pony Planer and possesses many of its good points and is amply heavy for the work it is intended. The material and workmanship throughout are first-class.

It has two driven feed rolls, one in the front and one in the rear of the cutter head.

The position of the cutter head is not changed for different thicknesses of lumber so that the driving belt remains tight though it is belted from any direction. Two speeds of feed are provided for by means of cone pulleys. All adjustments are quickly and easily made and in changing for different thicknesses of planing, no bolts or screws have to be loosened or tightened. It works hard or soft wood equally well. Built in two sizes to plane 16" and 20" wide and 6 " thick. Furnished either with or without countershaft. Tight and Loose pulleys on countershaft are 8"x4" and should run 1,000 revolutions per minute.

16" with Counter Shaft. Weight 637 lbs.
20 " " " " 700 "



"AMERICAN" BAND SAW.

This Machine is built from new patterns and is of the most approved design. **The Frame** is cored out and cast in one piece with very board base, which insures stiffness, good floor support and absence of vibration.

The Wheels are of cast iron accurately turned and carefully balanced, with rims covered with rubber, and are so made throughout as to guarantee them remaining round and running true.

The Tables are iron and may be tilted to any angle up to 45 degrees, and held securely in any position by an ingenious clamping device.

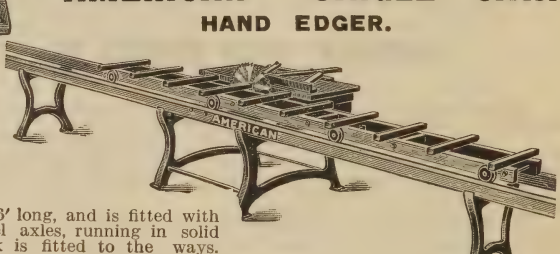
The Guide Bar is planed true and fitted with patent **non-friction** saw guide. It is counterbalanced and will raise 14 inches above the table to admit work of that thickness.

The Belt Shifter will receive a belt from any direction above or below the floor.

Tight and Loose pulleys are 12″x4″, and should run 400 revolutions per minute.
36″ Band Saw. Weight 1,100 lbs.
26″ " " " 500 "

"AMERICAN" SINGLE SAW.

HAND EDGER.



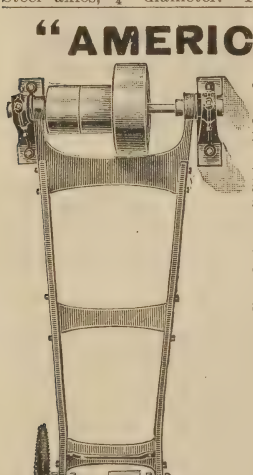
This machine is very valuable in properly edging and hearting lumber for the market, thus making it grade higher and bring a better price. It is provided with an adjustable ripping guage, and may be used to great advantage in making pickets, slats, shingle-lath, and doing other kinds of ripping.

The carriage will take a board 16′ long, and is fitted with four sets of trucks mounted on steel axles, running in solid metal boxes. Substantial iron track is fitted to the ways. Furnished with one 16″ solid saw.

DIMENSIONS:

Main table, 2′x4′, fitted with guage.
Track ways, 32′ long, 22″ wide.
Carriage, 14′ long, 13½″ wide.
Floor space required, 32′x4′6″.
Steel axles, ¾″ diameter. Trucks 3¾″ diameter.
Mandrel, 1 7/16″ diameter—Hole in saw 1¼″.
Driving pulley, 6″x6″, speed 1,500 R. P. M.
Weight, net, 865 lbs.; gross, 1,150 lbs.; cubic measurement, 42′.

"AMERICAN" SWING CUT-OFF SAW.



Can furnish Style A"" plain as shown in cut without saw or Style B with counterbalance without saw.

In this Swing Saw we have combined lightness, strength, rigidity, and low cost, thus producing a machine that will meet the requirements of everyone needing a cut-off saw of this type.

The frame is a combination of cast iron and steel channels, so braced as to prevent springing or twisting. It swings on independent trunnions which are attached to the hangers, thus relieving the countershaft and bearings of all strains. The countershaft is so arranged that it may be suspended from the ceiling or fastened to wall.

The mandrel is of the best steel, and runs in self-oiling babbitted bearings, which are cast solid with the lower frame, thus insuring perfect alignment and easy running.

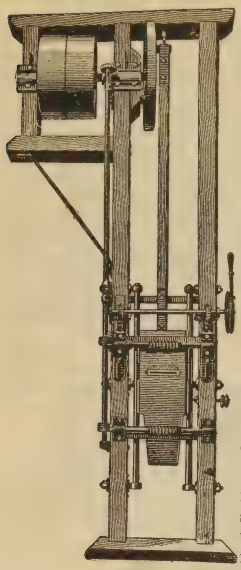
To provide for the wear of the saw and permit the use of larger or smaller saws, the lower frame which carries the mandrel has a vertical adjustment of 4″, which is a very valuable feature. Ample provision is made for taking up wear and lost motion in all working parts.

Shorter or longer frames can be furnished to meet the requirements of purchaser.

DIMENSIONS OF STANDARD LENGTH FRAME AS FOLLOWS:

From countershaft to mandrel.....6′
Diameter of countershaft.....1 11/16″
Driving pulley.....16″x6″
Tight and loose pulleys.....10″x6″
Revolutions per minute.....650
Mandrel, 1 7/16″, with pulley.....6″x6″
Any size saw may be used up to 24″ with 1¼″ hole.
Net weight of Standard Machine.....382 lbs
Gross weight, 547 lks. Boxed dimensions.....6′8″x2′9″x1′1″

AMERICAN EXCELSIOR CUTTING MACHINES.



These machines are built throughout of the best obtainable materials and in the most thorough manner. They are heavy, strong, durable and embody every improvement which the experience of practical Excelsior makers and the best experts in this line in the United States have demonstrated as most desirable and necessary in such a machine. They will work equally well hard or soft woods.

The wood frames are constructed of best selected timber of ample proportions to withstand the working strains and are carefully mortised and securely bolted together.

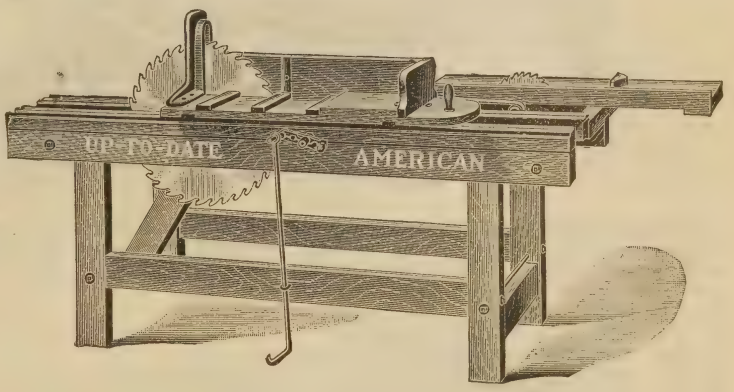
The main bearings are very heavy, of the bracket chain-oiling type, lined with babbitt and provided with improved screw adjustment for taking up the wear.

The Guides are steel of such form as to insure the greatest strength and accuracy. These together with the feed roll, cutter plate and other working parts are mounted on a substantial self-contained cast iron frame, thus securing accurate alignment, rigidity, and perfect cutting.

The frame which carries the adjustable feed roll is planed to accurately fit the slides on the cast iron frame, preventing side motion and causing the spurs to cut in the same slit in the wood every stroke and insuring a clean, uniform and superior grade of Excelsior and making it possible to produce the finest grades of Wood Wool.

American Up-to-Date Shingle Machines.

To meet the demand for a reliable yet low priced Shingle Machine, suitable for small mills, farmers and others having light power, we have brought out our "UP TO DATE Shingle Machine, shown in the accompanying cut. It is thoroughly well made throughout of the best materials.



The carriage is very substantial and provided with a strong iron yoke at the forward end. The underside is fitted with gibs, planed to accurately fit the iron track on which they slide and to which they hold the carriage securely. These gibs are slotted to provide adjustment for cutting thick or thin shingles and to take up lost motion.

Power feed is provided which is thrown into gear by pressure of the foot on the stirrup, and the machine can be used either with hand or power feed without change in adjustment.

The Mandrel is of the best steel, with long, self-oiling boxes, connected by heavy yoke with adjusting screw for regulating the lead of the saw.

A New Feature, and a very desirable one, is the handy little edger, which has an 8″ saw and a convenient gauge, insuring square, straight-edge shingles.

A Special Carriage and larger saw for bolting the shingle stock can be furnished, when desired, at small additional cost. Capacity, 5,000 to 10,000 shingles per day. Experts have done more.

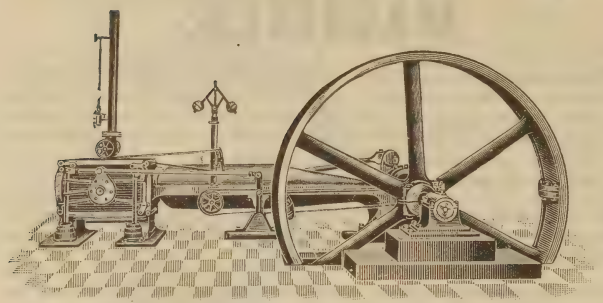
The Machine will handle square, round, or split blocks and does not require an experienced operator

Furnished complete, with 24″ shingle saw, 8″ edger saw and feed and edger belts.

DIMENSIONS.

Frame, 7′ long, 2′ 5″ wide. Carriage, 3′ 8″ long, 13″ wide. Power feed, 24″. Main Mandrel, 1 7-16″. Driving pulley, 6″ x 8″. Weight, with edger, net, 625 lbs.; gross, 750 lbs. Power required, 4 to 10 H. P. Speed of 24″ saw about 1,200 revolutions. Can furnish with or without edger. Bolting carriage extra. 36″ bolting saw extra.

Corliss Engines.



We have on hand at our warehouse, ready for immediate shipment, the following strictly high grade Corliss Engines, which have been very carefully gone over in our shop and trimmed up in a workmanlike manner. They are neatly painted and will put up a first class appearance.

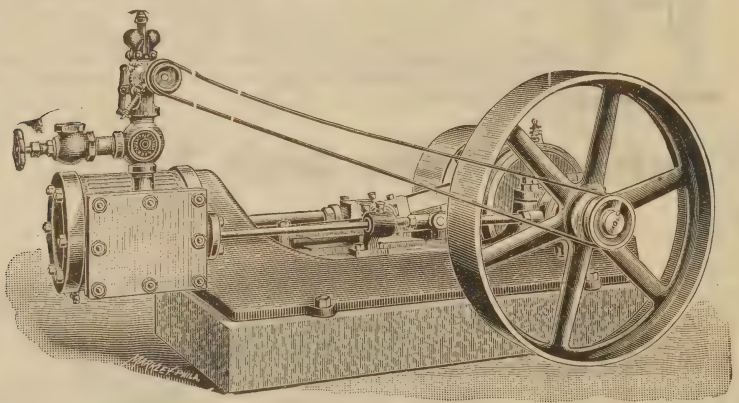
We furnish each complete with all trimmings such as lubricator of standard type, throttle valve, all necessary oil cups, crank pin oiler and full set of foundation bolts, and blue print for settings.

No. A1. One 12x36″ R. H. Hamilton Corliss Engine, 9′x20″ Wheel.

No. A2. One 16x36″ R. H. Wiesen-Velter Corliss Engine, 12′x25″ Wheel.

No. A3. One 16x42″ L. H. Bullock Corliss Engine, 12′x25″ Wheel.
No. A4. One 28x48″ R. H. Bates' Corliss Engine, 18′x50″ Wheel.

Slide Valve Engines



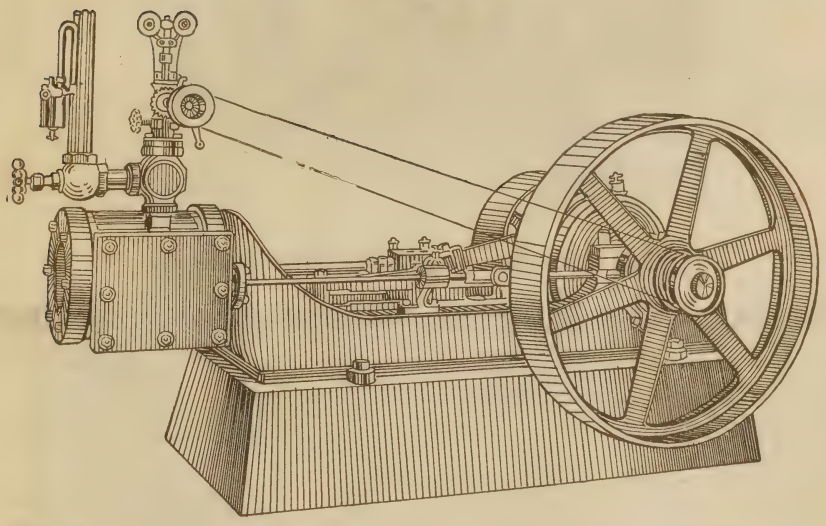
In the following list will be found many of the prominent makes of side valve engines, all of which have been properly gone over and are now ready for immediate shipment. Each engine is furnished complete with a standard governor, governor belt, throttle valve, lubricator, all necessary oil cups, drip valves, etc. In most cases these fittings are strictly brand new.

No. A17. Four 4x 5″ vertical O. & S. Engines.
No. A18. Five 5x 6″ Horizontal O. S. Engines.
No. A19. Three 6x 6″ Vertical O. S. Engines.
No. A20. Two 7x10″ Horizontal Side Crank Atlas.
No. A21. One 7x 9″ Vertical N. Y. Safety.
No. A21. Two 7x10″ Horizontal Erie City.
No. A22. One 8x10″ Side Crank Erie City.
No. A23. One 8x12″ Horizontal C. C. Richards.
No. A24. One 9x12″ Horizontal C. C. Richards.
No. A25. One 9x12″ Horizontal C. C. Erie City.
No. A26. One 9x14″ Horizontal Side Crank Atlas.
No. A27. One 10x12″ Horizontal C. C. Atlas.
No. A28. One 10x12″ Horizontal C. C. Erie City.
No. A29. One 10x12″ Vertical C. C. New York Safety.
No. A30. One 11x14″ Horizontal Side Crank Atlas.
No. A31. One 11x16″ Horizontal Side Crank Atlas.
No. A32. One 12x16″ Horizontal C. C. Nagle.
No. A33. One 12x16″ Self contained, side crank slide valve Brownell.
No. A34. One 13x18″ Horizontal Side Crank Nargle.
No. A35. One 14x18″ Side Crank Self-contained Brownell.
No. A36. One 14x20″ Side Crank Heavy Duty Atlas.
No. A37. One 14x24″ Heavy Duty Side Crank Erie City.
No. A38. One 16x24″ Heavy Duty Side Crank Atlas.
No. A39. One 16x24″ Side Crank Fraser & Chalmers.
No. A40. One 18x24″ Heavy Duty Side Crank Atlas.

The above engines are fitted with standard wheels, or pulleys as furnished by the manufacturers, but from our large stock of band wheels and pulleys we are in a position to equip the engines with almost any size wheel desired

Horizontal Slide Valve Engines

BRAND NEW



These are of the highest grade, center crank, single slide valve type. A glance at the outlines will show rigidity, strength, beauty of design and economy of floor space. Metal is carefully distributed so there is no useless weight. The rods are made of steel, the crank shaft of solid hammered steel, the brasses of phosphor bronze, and the bearings of the best babbitt. The fittings and trimmings furnished with thses engines are of the very best quality. Our price includes with the engine, the following trimmings:

Governor, governor pulley, fly wheel, four (4) oil cups, sight feed lubricator, throttle valves and nipples. This does not include steam exhaust pipe or foundation rods. Engine will be shipped from our Factory in Pennsylvania.

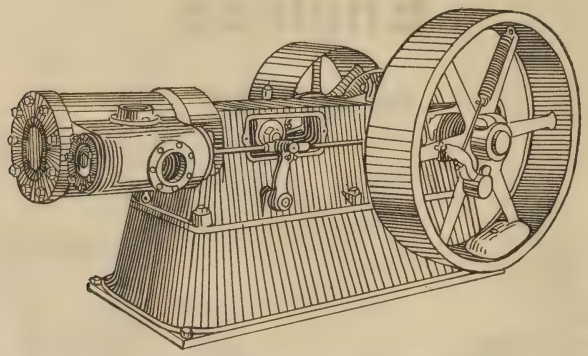
We make five sizes as follows:

Table of Dimensions and Price List

Horse-power as usually rated	**6**	**8**	**10**	**12**	**15**
Size of Cylinder, inches	5x7½	6x7½	7x10	7½x10	8x10
Diameter of Steam-pipe, inches	1	1¼	1½	1½	1½
Diameter of Exhaust-pipe, inches	1¼	1½	2	2	2
Diameter of Shaft, inches	2⅜	2⅜	2 13/16	2 13/16	2 13/16
Diameter and Face of Wheel, inches	24x6	24x6	30x6¾	30x6¾	36x7¼
Diameter and Face of Pulley, inches	14x7	14x7	16x7½	18x7½	18x7½
Revolutions per minute	250	225	200	180	180
Floor Space required for base, inches	14½x47½	14½x47½	16x57	16x57	16x57
Approximate Shipping Weight, pounds	700	800	1200	1300	1500
Price	**$100.00**	**$115.00**	**$145.00**	**$155.00**	**$167.00**

Horizontal Automatic Engines

Brand New



Prices, Sizes and Specifications of

Climax Horizontal Automatic Engines

Horse Power Standard Rating	CYLINDER		Revolutions	Automatic Pulley		BELT PULLEYS		PIPES		FLOOR SPACE		WEIGHT	PRICE
	Diameter	Stroke		Diameter	Face	Diameter	Face	Steam	Exhaust	Width	Length		
8	5½	7	275	26	6½	16	8½	1½	2	20	46	1,275	$135.00
10	6	7	275	26	6½	16	8½	1½	2	20	46	1,300	153.75
12	7	7	275	30	7½	16	10½	2	2½	20	46	1,430	167.00
16	7	8	275	30	7½	20	10½	2	2½	23	53	1,820	205.00
20	8	8	275	35	7½	20	10½	2½	3	23	53	2,050	227.00
25	9	8	275	35	7½	24	10½	2½	3	23	53	2,200	256.75
30	8½	12	250	48	10½	24	12½	2½	3	32	78	4,425	330.50
40	9½	12	250	48	10½	25	14	3	3½	32	78	4,550	403.75
50	10½	12	250	48	12½	28	14	3½	4	32	78	4,700	455.50

Prices F. O. B. our factory in Michigan.

Additional Charge for Larger Belt Pulleys.

The distribution of metal in this frame is such that it is exceedingly strong and unyielding, having a broad flange base, well ribbed internally, to rest upon the foundation.

The cylinder and steam-chest are in one casting, and are bored at the same setting insuring perfect alignment.

All wearing surfaces are large.

All parts interchangeable as far as consistent.

Perfect alignment of all parts.

Rated H. P. is based on initial steam pressure, 80 lbs. cutting off at ¼ stroke.

Before shipment every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as necessary connections are made.

We furnish with each engine a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks, and wrenches. Will furnish foundation bolts if desired at slight additional expense.

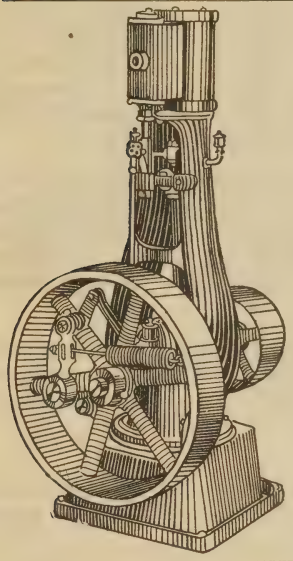
Each engine is mounted on a suitable cast iron base, so very little foundation is necessary.

AUTOMATIC ENGINES.

These Engines Have Been Thoroughly Overhauled and Rebuilt by our Staff of Expert Machinists. They are now in First Class Condition, Ready for Instant Use.

We furnish each engine complete with all trimmings, including foundation bolts.
Each engine is offered with the same warrant as the manufacturers as to durability, efficiency, and economical running qualities.

No A5. One 7x10″ C. C. Atlas.
No. A6. One 8x10″ C. C. Atlas.
No. A8. One 11x20″ Porter Allen.
No. A9. One 9x14″ Side Crank Atlas.
No. A10. 10x16″ C. C. Straight Line.
No. A11. One 11x16″ Side Crank Atlas.
No. A12. One 11x12″ C. C. Valley.
No. A13. One 13x12″ C. C. Erie Ball.
No. A14. One 14x14″ C. C. Ideal.
No. A15. One 12x14″ Side Crank, self-contained Chandler-Taylor.
No. A16. One 18x24″ Side Crank, heavy duty Atlas.
No. A17. Two 16x16″ Center Crank Erie Ball Engine.



VERTICAL AUTOMATIC ENGINES.

BRAND NEW.

The **Vertical Automatic Engine,** here illustrated, is made from new patterns, combining many features that add to its simplicity, durability and economical performance. The Frame is of such design as to combine beauty of outline and symmetrical shape, with such distribution of metal, as to make it **Strong, Rigid and Unyielding** in every part. The top and bottom of each frame is "faced off" true in a lathe, and the main boxes are planed true. A majority of manufacturers of small engines do not do this, and it is essential to **Perfect Construction and Permanent Alignment.**

We recommend these engines, both Horizontal and Vertical, for **Electric Lighting** or any kind of duty.

They have been thoroughly tried, and have fully met all requirements.

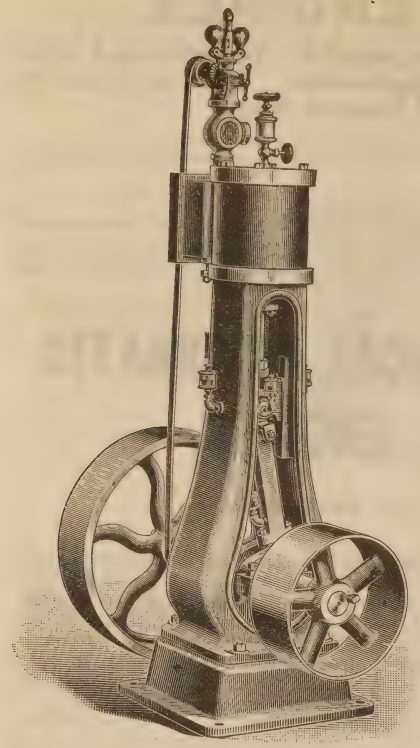
Horse Power	Cylinder		Revolutions	Automatic Pulley		Belt Pulley		Pipes.		Floor Space		Weight	Price
	Diameter	Stroke		Diameter	Face	Diameter	Face	Steam	Exhaust	Width	Length		
3	3⅝	3½	450	16	4½	10	4½	¾	1	13	13	315	$ 53.50
4	4	4½	375	20	5½	10	6½	1	1¼	15¼	15¼	500	63.50
5	4½	4½	375	20	5½	10	6½	1	1¼	15¼	15¼	520	71.00
6	5	6	300	24	5½	12	7½	1¼	1½	18½	18½	750	81.00
7	5½	6	300	24	5½	12	7½	1¼	1½	18½	18½	775	92.50
8	5½	7	275	26	6½	16	8½	1½	2	19¾	19¾	990	110.00
10	6	7	275	26	6½	16	8½	1½	2	19¾	19¾	1,050	135.00
12	7	7	275	30	7½	16	10½	2	2½	19¾	19¾	1,190	155.00
16	7	8	275	30	7½	20	10½	2	2½	22½	22½	1,475	189.00
20	8	8	275	35	7½	20	10½	2½	3	22½	22½	1,700	208.25
25	9	8	275	35	7½	24	10½	2½	3	22½	22½	1,900	246.25

Additional Charges for Larger Belt Pulleys.

Before shipment, every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as steam connections are made.

We furnish with each engine, a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks and wrenches. Will furnish foundation bolts if desired at slight additional expense.

Prices F. O. B. our factory in Michigan.



Vertical Slide Valve Engines

Brand New

The following engines are all of the Vertical, Centercrank, Slide-valve type, with throttling Governor. They are very modern in construction and design and are built of the highest grade of material. They are well constructed throughout —built very compactly along the most improved lines and are neatly painted and finished.

As to quality of workmanship, they are superior to many and excelled by none. Before shipment every engine undergoes a very critical test under steam and is very carefully adjusted so that it is ready to run the moment it is placed in position and given steam.

We consider these engines the most desirable for general purposes where small power is required. They are well proportioned throughout and designed to stand hard work and high speed.

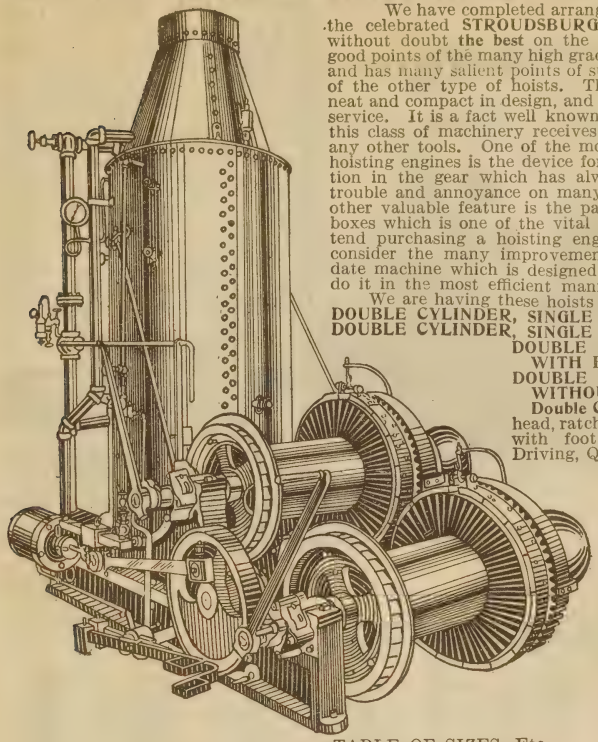
Each engine is furnished with governor, governor belt, governor pulley, oil cups, throttle valve, cylinder lubricator, belt pulley, fly wheel and is complete and ready to start. We do not furnish steam or exhaust pipe, nor do we furnish foundation bolts or rods.

Engine is shipped from our Factory in Pennsylvania.

Table of Dimensions and Price List

Horse-power as usually rated	1½	2	4	6	8	12	15
Size of Cylinder, inches	2½x3	3x5	4x5	5x7½	6x7½	7x8½	8x8½
Revolutions per minute	400	350	325	250	225	220	200
Diameter of Steam-pipe, inches	⅜	½	¾	1	1	1¼	1½
Diameter of Exhaust-pipe, inches	½	¾	1	1¼	1¼	1½	2
Diameter of Shaft, inches	1 3/16	1 11/16	1 11/16	2⅜	2⅜	2⅝	2⅝
Diameter and Face of Wheel, inches	13x3½	15x4	17x4½	24x6	24x6	30x6¾	36x7¼
Diameter and Face of Pulley, inches	6x3	10x5	12x6	14x7	14x7	16x7½	18x7½
Height from Floor to Centre of Shaft, inches	7	10	10	13	13	17¼	19¼
Height from Floor to Top of Cylinder, inches	28	43	43	54	54	67	69
Floor space occupied, inches square	13	17	17	20	20	24	24
Approximate Weight, pounds	200	400	450	700	800	1500	16 00
Price	**$42.50**	**$59.00**	**$65.00**	**$90.00**	**$100.00**	**$150.00**	**$165.00**

Double Drum Standard Hoisting Engine with Boiler



We have completed arrangements whereby we are handling the celebrated **STROUDSBURG HOISTING ENGINE,** which is without doubt **the best** on the market. It combines all of the good points of the many high grade hoisting engines on the market, and has many salient points of superiority not contained in many of the other type of hoists. They are exceptionally well built, neat and compact in design, and constructed for hard and efficient service. It is a fact well known to users of hoisting engines that this class of machinery receives less care and harder work than any other tools. One of the most valuable features about these hoisting engines is the device for overcoming the sticking of friction in the gear which has always been a continual source of trouble and annoyance on many types of hoisting engines. Another valuable feature is the patent oil bath used on the thrust boxes which is one of the vital parts of the hoist, and if you intend purchasing a hoisting engine, we hope you will carefully consider the many improvements, and purchase a fully up-to-date machine which is designed to do good and rapid work and do it in the most efficient manner.

We are having these hoists built in the following types:

DOUBLE CYLINDER, SINGLE DRUM, WITH BOILER.
DOUBLE CYLINDER, SINGLE DRUM, WITHOUT BOILER.
DOUBLE CYLINDER, DOUBLE DRUM, WITH BOILER.
DOUBLE CYLINDER, DOUBLE DRUM, WITHOUT BOILER.

Double Cylinder, Double Drum with winch head, ratchets, pawls and fixtures, complete with foot brakes, for Contractors, Pile Driving, Quarries, Dock and Bridge Building, Sewer and Railroad Construction, Conveying and Operating Trench Machines, and for all work where a stiff, strong engine is required. The winches can be independent or fixed.

THE STROUDSBURG is a high-class engine. They are made right, run right, and are right. No pains have been spared to make this engine the best that money, skill and experience can produce. Made in sizes from 6 to 50 horse-power.

We build other style engines for all classes of work. Write for prices before placing your orders.

TABLE OF SIZES, Etc.

Engine Number.	Horse-Power Usually Rated.	Dimen. of Cylinders		Dimen of Drums.		Dimensions of Boiler.			Dimensions of Bed-Plate.		Weight Hoisted Single Rope.	Suitable Wgt. Pile Driving Hammer.	Estimated Shipping Weight
		Diam	Str'k	Diam	L'gt.	Diam.	Hgth.	No. of 2-inch Tubes	Width	Length			
1	6	5	6	10	20	28	68	40	44	71	1500	1000	5000
2	8	5	8	12	22	32	80	55	47	77	2000	1500	6200
3	12	6¼	8	14	22	34	84	60	50	84	3000	2000	8000
4	16	6¼	10	14	26	36	84	65	54	86	4000	2800	9000
5	20	7	10	14	26	38	90	77	55	92	5000	3500	10000
6	28	8	10	14	27	42	96	90	58	99	8000	5000	11500
7	40	8½	12	16	32	46	102	125	66	104	10000	8000	14000
8	45	9	12	16	32	48	102	142	66	104	11000	9000	15000
9	50	10	12	16	32	50	102	155	72	115	12000	10000	20000

The above Engines can be Furnished with Boom Swinging Gear.

Single Drum Standard Hoisting Engine with Boiler

The double cylinder engines possess the special feature of having no centers, the cranks being connected at an angle of 90 degrees, thus being much easier to start, handle, etc.

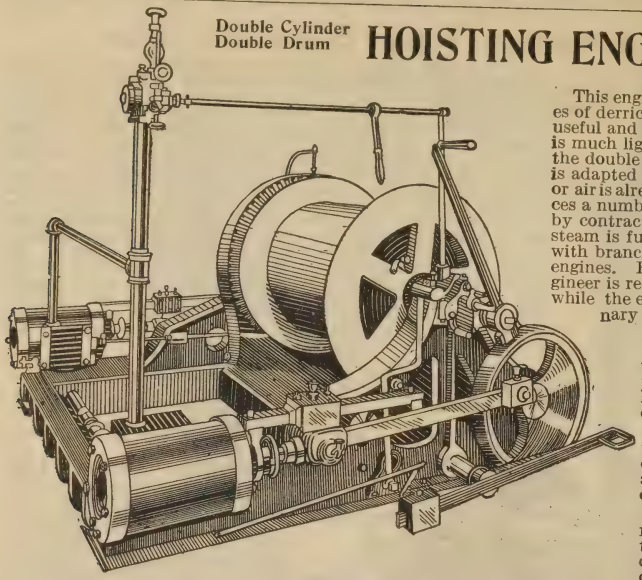
TABLE OF SIZES, Etc.

Engine Number.	Horse-Power Usually Rated	Dimen. of Cylinders		Dimen. of Drums		Dimensions of Boilers.			Dimensions of Bed-Plate.		Weight Hoisted Single Rope.	Suitable Wgt. Pile Driving Hammer.	Estimated Shipping Weight.
		Diam	Strk	Diam	Lgth.	Diam.	Hgth.	No. of 2-inch Tubes.	Width.	Length.			
11	6	5	6	10	20	28	68	40	41	57	1500	1000	4000
12	8	5	8	12	22	32	80	55	46	62	2000	1500	5000
13	12	6¼	8	14	22	34	84	60	48	67	3000	2000	6200
14	16	6¼	10	14	26	36	84	65	52	69	4000	2800	7500
15	20	7	10	14	26	38	90	77	54	72	5000	3500	8500
16	28	8	10	14	27	42	96	90	57	75	8000	5000	10000
17	40	8½	12	16	32	46	102	125	66	93	10000	8000	12000
18	45	9	12	16	32	48	102	142	66	93	11000	9000	13000
19	50	10	12	16	32	50	102	155	72	95	12000	10000	15000

Double Cylinder
Double Drum

HOISTING ENGINE

Without Boiler
With Foot-Brakes,
Ratchets & Pawls.



This engine is largely used for all classes of derrick work, and is an extremely useful and popular type of machine. It is much lighter and more compact than the double drum engine with boiler, and is adapted for use in places where steam or air is already supplied. In many instances a number of these engines are used by contractors, or in quarries, where the steam is furnished from one main boiler, with branch pipe running to the various engines. By this method only one engineer is required to attend the boiler, while the engines are operated by ordinary laborers, who after a little practice become quite skillful.

Each drum is provided with shrouded ratchets and pawls of ample strength to hold securely any load the engine can hoist.

A winch head of our regular form is attached to the outer end of each drum shaft, and can be used for hoisting or hauling.

Foot-brakes are strongly recommended, as they add to the safety and convenience of the engine and save wear on the drum frictions.

TABLE OF SIZES, ETC.

Engine Number	Horse-Power Usually Rated.	Dimensions of Cylinders.		Dimensions of Drums.		Dimensions of Bed-Plate		Weight Hoist, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Diam.	Stroke	Diam.	Length	Width	Length			
21	6	5	6	10	20	44	71	1,500	1,000	3,500
22	8	5	8	12	22	47	77	2,000	1,500	4,300
23	12	6¼	8	14	16	44	84	3,000	2,000	5,000
24	16	6¼	10	14	18	46	86	4,000	2,800	6,000
25	20	7	10	14	18	47	92	5,000	3,500	6,500
26	28	8	10	14	20	50	99	8,000	5,000	7,500
27	40	8½	12	16	24	58	104	10,000	8,000	10,000
28	45	9	12	16	24	58	104	11,000	9,000	11,000
29	50	10	12	16	24	64	115	12,000	10,000	12,000

The above Engines can be furnished with Boom Swinging Gear.

Double Cylinder Single Drum Hoisting Engine

Without Boiler. With Foot-Brake, Ratchet and Pawl.

These engines are of a most useful type and are largely used for general hoisting purposes where steam or compressed air are available. They are simple and compact: cannot get caught on the centers, and are safer and simpler to operate than single cylinder engines. They are well adapted for use on docks. They can be either fixed at definite points or mounted on dock wheels, and thus being portable can be concentrated at any place and unload a vessel very quickly. A few engines can be made to cover a large dock with efficiency and economy. They are also useful on steamers for handling freight, and on sailing vessels for handling cargo, sails, anchor, etc.

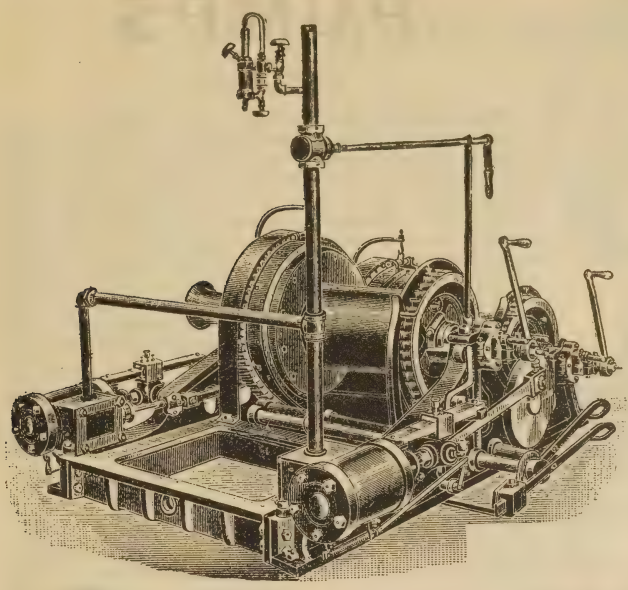
For small mines many are in use for depths of 50 to 200 feet or more, the drums usually being lagged, increasing the diameter about six inches.

Foot-brakes are strongly recommended, as they add to safety in handling and save wear on the drum friction.

A winch head is fixed to the outer end of the drum shaft.

TABLE OF SIZES, ETC.

Engine Number.	Horse-Power Usually Rated.	Dimensions of Cylinders.		Dimensions of Drums.		Dimensions of Bed-Plate.		Weight Hoisted, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Diam.	Stroke	Diam.	Length	Width	Length			
31	6	5	6	10	20	41	57	1,500	1,000	1,800
32	8	5	8	12	22	46	62	2,000	1,500	2,200
33	12	6¼	8	14	16	42	67	3,000	2,000	2,800
34	16	6¼	10	14	18	45	69	4,000	2,800	3,200
35	20	7	10	14	18	46	72	5,000	3,500	4,000
36	28	8	10	14	20	49	75	8,000	5,000	6,000
37	40	8½	12	16	24	58	93	10,000	8,000	8,000
38	45	9	12	16	24	58	93	11,000	9,000	8,500
39	50	10	12	16	24	64	95	12,000	10,000	9,000



Hoisting Engines

We are securing Hoisting Engines of every description at all times, and of course our stock in this line is changing very rapidly and we would suggest an inquiry when in the market for anything in this line. Our present stock consists of:

No. A 74. One double cylinder, Double drum Lambert Hoisting Engine, without boiler. Cylinder 7x10, complete with usual trimmings.

No. A75. One double cylinder, double friction drum Munday Hoisting engine, with cylinders 7¼x10. Drums 14x26, boiler 40x84, complete with the usual trimmings.

AIR COMPRESSORS

We are usually in a position to furnish almost anything in the way of Air Compressors, as our stock consists of both high and low duty machines, steam and belt driven. We list below what we have on hand today:

Steam Driven

No. A52. One 10x10x10 Wilson & Snyder.
No. A53. One 10x10x12 Fisher, direct conected to Atla engine.
No. A54. One 14x14x18 Fisher, direct connected to Chandler & Taylor engine.
No. A55. One 16x16x24 Fisher, direct connected to Fraser & Chalmer Engine.

The above steam driven compressors are furnished complete with steam governor, throttle valve, ubricator, oil cups, and unloading device

Belted Compressors

No. A56. One 6x6 Clayton Compressor.
No. A57. One 10 and 6x8 and 10 two stage Pedrick & Ayer, direct connected.
No A58 One 8x8 Christensen Compressor, direct connected to 220 Volt Motor.

Forge or Cupola Blowers

FORGE OR CUPOLA BLOWERS.
No. A65. One No. 2 Sturtevant.
No. A66. One No. 3 Sturtevant.
No A67. One No. 4 Sturtevant.
No. A68. Two No. 5 Sturtevant.
No. A69. One No. 6 Sturtevant.

Exhaust or Shavings Fans

EXHAUST OR SHAVINGS FANS.
No. A59. One 30″ Sturtevant.
No. A60. One 36″ Sturtevant.
No. A61. One 44″ Sturtevant.
No. A62. One 45″ Sturtevant.
No. A 63. Two 60″ Sturtevant.
No. A64. One 72″ Sturtevant.

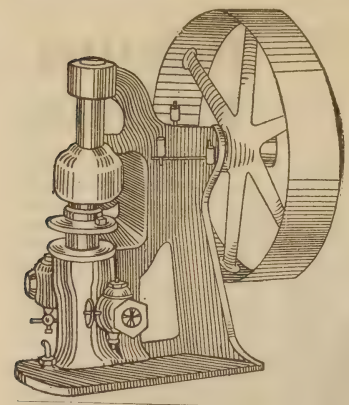
Ventilating or Window Fans

No. A70. Four 36″.
No. A71. Five 42″.
No. A72. One 48″.
No. A73. Two 60″.

No. A76. One double cylinder, double friction drum Munday Hoisting engine and boiler, with cylinders 7¼x10, drums 14x26, boiler 44x84, equipped with two independent wench heads and extra heavy hoist.

No. A77. Four double cylinder, single drum, Webster, Camp & Lane Mine Hoisting engines, cylinders 8½x12, drums 42x36″ face, complete with Derrick, driving bands and all necessary trimmings.

No. A78. Two double cylinder, double friction cross drum Ligerwood Hoisting engines, cylinders 12x16, drums 30″ diameter x 24″ face. 7″ flanges, complete with usual trimmings.



PUMPS

BELT DRIVEN.

These pumps occupy very little space, are easy to set up and keep in order. The plungers are guided at both ends, and the power applied between bearers. The pin in the crank has a roller working on it within the slot, thus giving an easy and smooth motion. All the wear comes on the pin, so that repairs are very light. The pin and bearing are all very large so as to reduce the wear to the least amount possible. The pumps are furnished with heavy check valves, large valve openings and are very durable. We always send the valves with close nipples to attach the valves to pump barrel. Where the lift from water to pump is ten feet or more, it is best to use a foot valve on the end of suction pipe, where it can be used. Size and capacity of pumps:

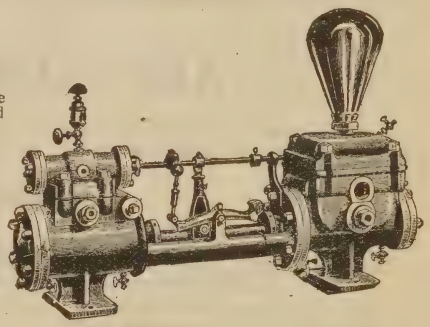
No.	Piston.	Stroke.	Pipes.	Pulley.	Power of Bciler.	Weight.	Gallons per Hour.
1.	1 inch	2 inch	⅜ inch	12x2	3	35 lbs	18
2.	1⅛ inch	2½ inch	⅜ inch	14x2	5	45 lbs.	30
3.	1¼ inch	3 inch	½ inch	16x3	10	65 lbs.	60
4.	1½ inch	3 inch	¾ inch	16x3	15	75 lbs.	90
5.	2 inch	3 inch	1 inch	18x4	30	130 lbs.	180
6.	2½ inch	3 inch	1 inch	18x4	45	170 lbs.	270
7.	2 inch	6 inch	1½ inch	22x4	60	200 lbs.	360
8.	2½ inch	6 inch	1¼ inch	14x4	80	300 lbs.	400

PUMPS

SINGLE DIRECT ACTING.

All of these pumps are single direct acting, Deane and Knowles, most of them being brass fitted and especially adapted for boiler feeding purposes.

No. A125. Three No. 0, 3x2x5.
No. A126. Six No. 1, 3½x2½x5.
No. A127. Four No. 1½, 4x2⅜x5.
No. A128. Six No. 2, 4x2½x5.
No. A129. Six No. 2½, 4½x3x5.
No. A130. Three No. 3, 5x3½x7.
No. A131. Two No. 4, 5½x3½x7.
No. A132. Six No. 4½, 7x4½x8.
No. A133. Four No. 5, 7½x5x10.
No. A134. Three No. 6½, 8x5x12.
No. A135. One No. 7, 10x6x12.
We also have a number of Belt Driven Pumps.



DIAMOND DRILL.

No. A150. One Bullock Champion Diamond Prospecting Core Drill, steam feed, complete with swivel head, boiler, pump, rods and derrick.

ROCK DRILLS.

No. A151. One pair of standard make of steam or air rock drills, which have been put in perfect condition in every way, and are just about as good as new machines.
No. A152. One 1¾-inch Bullock Monarch Drill, fitted for air or steam.
No. A153. Four 2-inch Bullock Monarch Drills, fitted for air or steam.
No. A154. Two 2¾-inch Bullock Monarch Drills, fitted for air or steam.
No. A155. Four 3⅛-inch Bullock Monarch Drills, fitted for air or steam.
No. A156. One U-A Sullivan Drill, for air.
No. A157. Two U-C Sullivan Drills, for steam.
No. A158. Three U-E Sullivan Drills, for steam.
No. A159. One U-E No. 2 Drill, for steam.
No. A160. Seven 2¾-inch Rand Little Giant Drills.
No. A161. Three 3-inch Rand Little Giant Drills.
No. A162. Two 3⅛-inch Rand Little Giant Drills.
No. A163. One 2¾-inch Ingersoll Drill, for steam.
No. A164. Three 3⅜-inch Ingersoll Drills, for steam.

CENTRIFUGAL PUMPS.

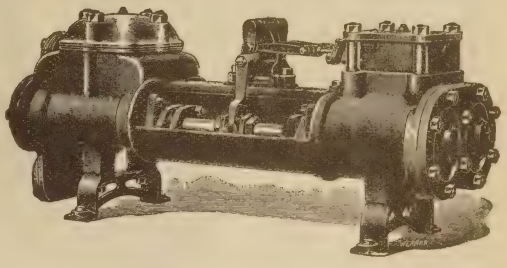
We have these in all sizes, and would invite your inquiry, as to conditions under which you desire to use it.

We can fit you up complete irrigating plants with steam or gasoline engines, centrifugal pumps, etc.

FEED PUMPS.

In Boiler Feed Pumps, we are able to furnish both Duplex and single acting type in iron or brass fitted, each pump all complete in first-class condition, ready for operation. We have on hand the following:

No. A103. Fifty 3x2x3.
No. A104. Fifty 4½x2¾x4.
No. A105. Twenty-five 5¼x3½x5.
No. A106 .Fifty 6x4x6.
No. A107. Ten 7½x4½x10.
No. A108. Five 7½x4½x10.
No. A109. Three 8x5x10.
No. A110. Two 10x6x10 Gordon.
No. A111. Three 12x7x10 Worthington.
No. A112 Two 14x7x10 Worthington.
No. A113. One 14x7½x10 Deane.
No. A114. One 14x8½x10 Worthington.
No. A115. Three 5¼x5x6 Deane vacuum pumps.
No. A116. Two 16x24x36 March vacuum pumps.



No. A117. Three 12x24 Deane deep dull pumps.
No. A118. One 30x36 Knowles deep well pump.
No. A119. Eight 4½x6 belt driven geared power boiler feed pumps
No. A120. Five 3½x6 belt driven geared power boiler feed pumps.
No. A121. Six 6x3½x6 outside packed Worthington standard duplex pumps.
No. A122. Four 8½x12 Blake belt driven power pumps.
No. A123. Two 5x6 Fairbanks Morse belt driven power pumps.
No. A124. Three 7x8 single belt driven power pumps.

FEED WATER-HEATERS.

We are always in a position to furnish anything in the way of Feed Water Heaters adapted to the requirements of different power plants. Our stock consists of both open and closed type.

In closed heaters we have:

No. A89. One 50. H. P. Corrugated Copper Tube Wainright.
No. A90. One 75 H. P. Corrugated Copper Tube Wainright.
No. A91. One 100 H. P. Berryman, Brass tubes.
No. A92. One 125 H. P. Bargwanath Heater.
No. A93. One 150 H. P. Berryman, Brass Tubes.
No. A94. One 175 H. P. Kroeschell, Iron Tubes.
No. A95. One 200 H. P. Berryman, Brass Tubes.
No. A96. One 400 H. P. Berryman, Brass Tubes.
No. A97. One 1,000 H. P. Berryman, Brass Tubes

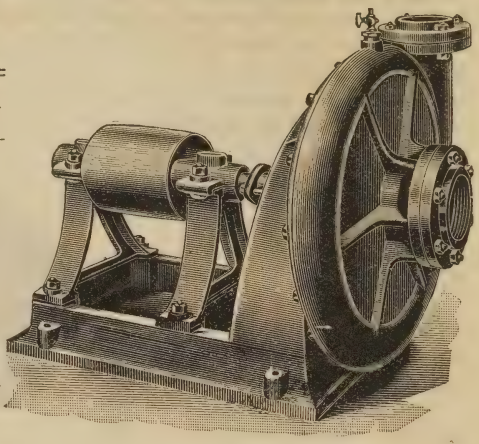
In open heaters or Purifiers we have:

No. A98. One 50 H. P. Webster.
No. A 99. One 75 H. P. Webster.
No. A100. One 125 H. P. Stillwell-Bierce.
No. A101. One 150 H. P. Stillwell-Bierce.
No. A102. One 250 H. P. Stillwell-Bierce

HORIZONTAL SIDE SUCTION CENTRIFUGAL PUMP.

SIZES, CAPACITIES.

No. Pump.	Capacitp Gallons.	Size of Pipe.		Pulley.	
		Disch.	Suct.	Diam.	Face.
1	30	1 in.	1½ in.	4 in.	3 in.
1½	70	1½ "	2 "	5 "	5 "
1¾	90	2 "	2½ "	6 "	5 "
2	120	2 "	3 "	6 "	6 "
2½	185	2½ "	3½ "	7 "	6 "
3	265	3 "	4 "	7 "	8 "
3½	360	3½ "	4½ "	8 "	8 "
4	470	4 "	5 "	10 "	8 "
5	735	5 "	6 "	10 "	10 "
6	1060	6 "	8 "	14 "	12 "
8	2000	8 "	10 "	20 "	12 "
10	3000	10 "	12½ "	24 "	12 "
12	4300	12 "	15 "	30 "	14 "
15	7000	15 "	18 "	Sp'cial	Sp'cial
18	10000	18 "	20 "	"	"



Brass fitted pumps have runner and shaft of brass.

These pumps can be fitted with tight and loose pulleys if desired at an extra charge.

The above is our Standard Side Suction Centrifugal Pump. This pump is designed and constructed throughout on very liberal lines. The case or shell is of the solid type, very heavy, and the runner of large diameter, adapting the pump for slow speed.

The inside of the case is machine finished and the runner machined and accurately fitted to it; and our construction gives a closer running fit and greater efficiency than can be obtained in the old style split case

Prices on Iron or Brass Fitted Pumps on application.

GRAVEL AND DREDGING CENTRIFUGAL PUMP.

The pump shell is made in one casting and is very heavy, especially in the part that receives the greatest wear. A removable disc is fitted to the suction side of pump, which can be readily removed, and as this opening is larger than the piston, this can be withdrawn without disturbing the pump shell or any other part. It is heavily ribbed inside and has a large surface on the bottom. The bearing pedestals are very strong and heavy so as to prevent any vibration.

SIZES, CAPACITIES.

No. Pump	Cu. Yds. Solids per Hour Per Cent. Solids.		Size Disch. & Suct. Pipe.	Pulley.		H. P. required each 10 ft. of elevation.	Diameter of solids pump will pass.
	10%	20%		Diam.	Face.		
4	14 yds.	28 yds.	4 in.	12 in.	12 in.	4	2 in.
6	30 "	60 "	6 "	18 "	12 "	8	4½ "
8	60 "	120 "	8 "	24 "	12 "	15	6 "
10	90 "	180 "	10 "	30 "	14 "	25	8 "
12	125 "	250 "	12 "	40 "	16 "	30	10 "

PRICES ON APPLICATION.

Foot Lathes.

Improved screw cutting. Catches all standard threads, right or left hand, while the lathe is in motion. They are brand new, having been purchased by us at a receiver's sale. It is a machine combining neatness of design and finish with such features as will enable a workman to do from the smallest to the heaviest boring and turning without the least tremble or chatter. It is specially adapted for jobbing and manufacturing shops, bicycle shops, gunsmiths, model makers, etc. Indexed to cut threads from **3 to 120** per inch, right or left hand. Swings **10** inches over bed and **26** inches between centers. All screws and working parts are covered to keep off chips and dirt. Gearing are all cut from the solid, and are as true and noiseless as they can possibly be made. Rack and small gear are cut from steel. Has three-speed cone pulley and back gear, giving the lathe six different speeds. Head stock has hollow steel spindle with 13-32-inch opening its entire length. Bearings 3-16 inch diameter, 2¼ inches long, run in gun metal boxes, provision being made to take up wear. Tail stock has steel spindle, 1-inch diameter, reamed to No. 1 Morse taper, with self-discharging center. It sets over for taper turning, and can be moved to any part of the bed by one-half turn of the cam. We furnish with each lathe a face plate, two centers, wrenches, and set of change gears. Size 9x25 inches. Weight, 350 pounds.

No. 1. One 15 in. x 14 ft. Johnson Engine Lathe, compound rest, solid spindle, screw feed, 11 ft. 4 in. between centers, 4-step cone, 1¾ in. belt, 12 in. 4-jaw independent chuck fitted, tight and loose countershaft.

No. 2. One 15 in. x 5 ft. Lathe & Morse engine lathe, rod feed only, not screw cutting, rise and fall rest, 1 in. hole in spindle, taper attachment, 7½ in. 3-jaw chuck fitted, no countershaft.

No. 3. One 16 in. x 6½ ft. Putnam engine lathe, solid spindle, rise and fall rest, rod and screw feed, screw on back of bed, 4-step cone, 1¼ in. belt.

No. 4. One 16 in. x 6 ft. Fitchburg engine lathe, compound, rest, rod and feed screw, solid spindle, 4-step cone, 2¼ in. belt, tight and loose pulley, countershaft, 3 ft. 5 in. between centers, 9 in., 3-jaw Universal chuck.

No. 5. One 16 in. x 10 ft. Oesterlein engine lathe, plain rest, solid spindle, screw feed, 7 ft. 6 in. between centers, 4-step cone, 2 in. belt, tight and loose countershaft.

No. 6. One 17 in. x 8 ft. Johnson engine lathe, compound rest, 4-step cone, tight and loose countershaft.

No. 7. One 17 in. x 6 ft. Grand-Sawtell engine lathe, rod and screw feed, plain rest, 9 in. old style chuck fitted, 4-step cone, tight and loose countershaft.

No. 8. One 18 in. x 8 ft. Blaisdell engin lathe, solid spindle, rise and fall rest, friction countershaft, 4-step cone, 2½ inch belt.

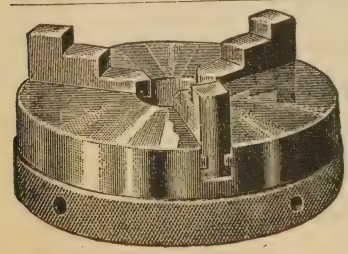
No. 9. One 18 in. x 6 ft. Lathe & Morse engine lathe, solid spindle, rise and fall rest, rod and screw feed, 14 in. old style chuck fitted, 4-step cone, friction countershaft.

No. 10. One 18 in. x 7 ft. Fuller & Wilson engine lathe, solid spindle, rise and fall rest, rod and screw feed, tight and loose countershaft.

No. 11. One 20 in. x 6 ft. Thayer & Houghton engine lathe, solid spindle, rod and screw feed, rise and fall rest, tight and loose countershaft.

No. 12. One 20 in. x 6 ft. Putnam engine lathe, rod and screw feed solid spindle, rise and fall rest, 18 in. 4-jaw independent chuck fitted, tight and loose countershaft.

No. 12. One 22 in. x 16 ft. Blaisdell engine lathe, plain rest, solid spindle, 4-step cone, 3 inch belt, 11 ft. 4 in. between centers, 15 in. 4-jaw combination chuck, tight and loose countershaft.



PLANERS.

No. 13. One 30x30x8 Whitcomb planer.

No. 14. One 24x24x6 Gray planer with one head on rail, power cross and down feed.

BRAND NEW LATHE CHUCKS.

Diameter inches.	Price with one set of jaws.	Price with two sets of jaws.
4	$4 85	$6 00
5	5 60	6 75

WOOD WORKING MACHINERY.

We make a specialty of furnishing complete equipment for Saw and Lumber Mills. Men who contemplate the erection of such mills will do well to correspond fully with us as to their desire or intention. Our staff of experts are at your service.

In Woodworking Machinery we usually carry a very considerable stock, and everything we offer has been put through our shop, and any parts showing signs of excessive wear have been replaced, the machines re-babbitted throughout and offered in first-class operative condition.

No. A136. Two 24x6′ J. A. Fay Double Cylinder Planers.
No. A137. One 24x6′ four sided planer and matcher complete.
No. A138. One 14x6′ Heavy Duty Six roll "Triumph" Flooring Machine.
No. A139. One 24x6′ Endless Bed Planer.
No. A140. One 36″ Double Roll Berlin Sander.
No. A141. One Heavy Duty Greenlee Car Mortising Machine.
No. A142. One Vertical Houston Mortiser.

Lathes and Machine Tools

In Machine Tools we have on hand the following, which have all been carefully and thoroughly gone over in our shop, and are furnishing complete with the usual equipment, consisting of a full set of screw cutting gears, steady rest, face plate, counter shaft, tool post, wrenches, etc.

No. A143. One 14x 6″ Putnam Screw Cutting Engine Lathe, plain rest, solid spindle.
No. A144. One 16x 6″ Perkins Screw Cutting Lathe, hollow spindle, plain rest.
No. A145. One 16x 6″ Blaisdell Solid spindle, plain rest.
No. A146. One 18x 7″ Perkins, Solid Spindle, plain rest.
No. A147. One 18x10″ Blaisdell Solid Spindle, plain rest.
No. A148. One 24x12″ Putnam Screw Cutting Engine Lathe, with compound rest.

Miscellaneous Machinery

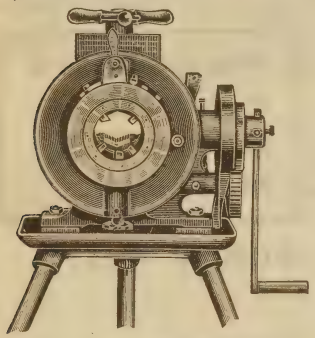
No. A200. One Ready Single Belt Worm Gear Freight Elevator, complete with 220 volt motor and starting box...
No. A201. One Ready Worm Gear, Belt-driven Freight Elevator, with complete outfit, platform, counter balance weights, cable and all equipment ...
No. A202. One Eaton & Price Worm Gear, Belt-driven Freight Elevator, complete with platform, counter balance weights, cable and equipment...
No. A203. One 16x16x3′6″ Iron Planer, with power cross and down feed...
No. A204. One Old-style Eaton, Coles & Burnham Pipe Machine, 2½″ to 8″, needing some repairs.. **$200.00**
No. A205. One Rip and Cut-off Saw Table and Frame, with rise and fall table, will carry 24″ saw.. **25.00**
No. A206. One Bench Emery Stand, will carry two wheels, 10x1½″... **15.00**
No. A207. Two 36″ band saws complete...
No. A208. One No. 4 combined hand and power Forbes Pipe Machine, cutting from ⅛″ to 4″, complete with dies... **75.00**
No. A209. One Centrifugal Oil Separator... **15.00**
No. A210. One 8 and 14x12″ McEwen Tandem compound Engine ...
No. A211. One 5x6x6″ Wheeler & Tappan duplex brewery Rack off Pump...
No. A212. One 12x20x36″ Low Duty Air Pump...
No. A213. One 12x16x36″ Low Duty Air Pump...
No. A214. Two Worthington combined Air Pump and Receiver, with 3x2x3″ Pump...
No. A215. One 8x8x10″ Vertical Steam Driven Air Compressor...
No. A216. One Perforated Rattler or Tumbling Barrel, geared 30″ diameter by 17 feet long...
No. A217. One No. 2 Richmond Saw Mill complete...
No. A218. Four 6′x7′ Air Lifts...
No. A219. Two 12″x8′ Air Lifts...
No. A220. One 10-ton Steam Driven Western Ammonia Compressor...
No. A221. Three 12x24″ Deane Deep Well Steam Heads, each... **$ 85.00**
No. A222. One [illegible]. 4 Centrifugal Pump, direct connected to Westinghouse engine ...

IMPROVED THREADING MACHINE

The Improved Hand Power Threading and Cutting Machine With Adjustable Expanding Chasers for 1-inch to 4-inch Pipe

DESCRIPTION

This machine is especially designed to enable the man at the crank to do his work with such ease that he can do it continuously; we **double gear the** machine, making one a "slip gear." When cutting small sizes or the first easy threads of larger pipe, one gear is disengaged and the machine drives fast; when the work becomes heavy, both gears are engaged and the crank turns easily. Thus you get **two widely different speeds** on the same crank. The change is made in a few seconds, without removing the crank or any other part; no wrench or other tool is necessary.



The die head has our patent adjustable quick opening and closing lever device—instantly adjustable to all variations. The operator can clean out the chaser slots without taking the die head apart.

The setting lever is used in releasing the chasers when the thread is cut; in setting them to same size for making duplicate threads; in changing the chasers from one size to another, and in setting them to graduation on the face-plate. For example: to cut a 4" thread, release two set screws back of the lever; this will free the setting plate which will then travel with the lever to point graduated on the face-plate for 4"; make setting plate fast. With lever in its notch, cut your thread; when the thread is finished, the setting lever is thrown out of its notch and back to the pin which acts as a stop; this opens the dies; the pipe can be removed, and by throwing the lever back to the same notch, the dies are reset to exactly the same size.

To change the chasers, release the setting-plate, throw the lever and plate the full limit of travel and the chasers can be removed outward through the shell.

Chasers for well casing to 4½" inside diameter and bolts from ½" to 1⅝" can be added to the regular equipment.

Chasers cut a full, tapered pipe thread at one cut. There are four pieces to each set, which threads two sizes of pipe. They are made of high grade tool steel, scientifically tempered.

Die Bushings. When threading 1½" and smaller, always insert bushing, or die support, into the die head.

Gears are all machine cut and entirely protected from chips or accident. All pinions are cut from solid steel forgings.

The adjustable guides, which are placed just back of the chasers, center and hold the pipe in place while cutting off. No change of equipment is necessary—expand the chasers, bring the guides forward, and the machine is ready for cutting off. One set of guides adjusts to all sizes of pipe.

Cutting off attachment is operated automatically by means of pawl attached to side of machine and is practically an indestructible lathe tool, making a clean cut without burr. The cutter can be removed easily and sharpened on an ordinary grindstone.

Vise is self-centering and straight threads are assured. Start the thread by revolving the hand wheel at the side of vise. The gripping jaws are of tool steel, tempered.

SHIPPING WEIGHTS

No. 204 Machine with pan, crated for shipment.....500 pounds.
No. 204 Machine with pan, boxed for shipment.....550 pounds.
No. 204 Machine with pan and tripod, crated for shipment.....575 pounds.
No. 204 Machine with pan and tripod, boxed for shipment.....625 pounds.

List price No. 204 Machine, four sets of dies, 1" & 1¼", 1½" & 2", 2½" & 3", 3½" & 4"

CODE WORDS { **Hart.** Machine with pan.....$105.00
Hartfelt. Machine mounted on tripod with pan.....112.50

List price of extra dies, right or left hand, per set (four pieces).....$3.00
If ⅛" & ¼" chasers are wanted add **$7.50 to list price** of the machine.

F. O. B. Cleveland, Ohio. Our factory.

LITTLE DANDY HAND POWER MIXER

MODEL "A"

MODEL A.

This mixer will turn out with less labor, as much concrete as any power driven machine. It can be operated by independent power if desired. Its output depends upon the man at the crank, but it must not be supposed that a man can do the work of an engine. This mixer has a capacity of 5 yds. per hour.

When operating this machine, see that the same is not overloaded, and keep the feed down to limitation of man's strength and endurance.

Our Model A hand power machine weighs approximately 700 pounds. This machine is mounted on wheels, and can be readily moved about by a few men, making it invaluable for street work of all kinds. It is also possible to place this machine in any desired position so as to discharge directly into a trench or forms.

We also have Concrete Block Machines.

LITTLE DANDY TWO HOPPER POWER MIXER

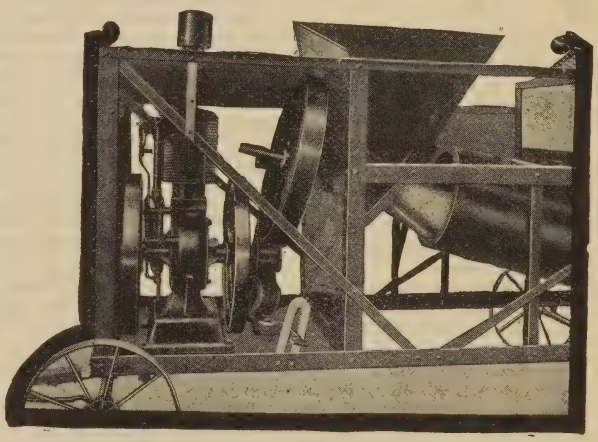
MODEL "B"

This mixer has the same general construction as the hand power machine with the exception of being built on heavier lines. It will readily turn out double the product of the hand machine. No job too small, none too large for this mixer.

THE CAPACITY OF THIS MIXER IS 10 YARDS PER HOUR.

The output however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection which is simplicity in itself, and cannot possibly give trouble.

Send For Our General Catalog.



MODEL B.

WEIGHT OF POWER MODEL B TWO HOPPER MIXER 1,500 POUNDS.

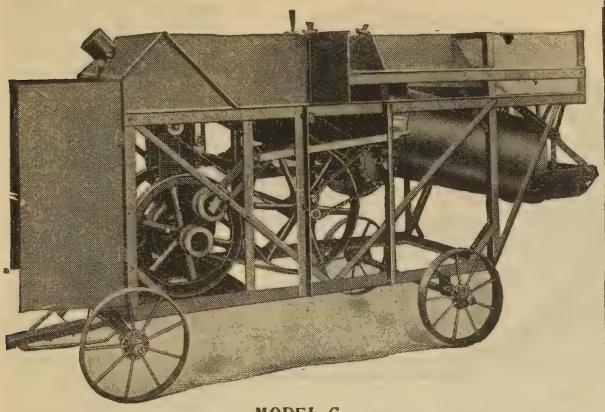
The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through orifices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15″ of the lower end of the drum, a sprinkling device wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine is 50″ from the ground, the discharge 15″ from the ground. The engine on this mixer is rated at 2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is most economical engine in the use of fuel.

LITTLE DANDY THREE HOPPER MIXER

MODEL "C"



MODEL C.

Repair Parts for these Mixers can be had from us.

Let us have Your Enquiries.

This mixer is also built on somewhat different plans from Models A and B, being heavier in construction, having a larger and different mixing drum, and wider, heavier conveying belt, and is provided with three hoppers so as to automatically feed and proportion all three materials, where cement, sand, and stone are used. It requires little if any more power to operate, and the same engine is used as in Model B. **Weight of power mixer Model C, three hopper, is 1905 pounds.**

THE CAPACITY OF THIS MACHINE IS 15 YARDS PER HOUR.

The output, however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection which is simplicity in itself, and cannot possibly give trouble.

The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through offices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15″ of the lower end of the drum, a sprinkling devise wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine are 50″ from the ground, the discharge 23″ from the ground. The engine on this mixer is rated at 2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is a most economical engine in the use of fuel.

POWER. The Marvel Non-Heating Air Cooled Gasoline Engine is used to operate the **Little Dandy Mixers,** and the 2 to 2½ power size is ample for the purpose.

THE ENGINE. This is a thoroughly reliable engine of the 4 cycle type, possessing features found in no other engine. It is AIR COOLED, GEARLESS, has a VARIABLE COMPRESSION, mechanical ignition and is **more economical in the use of fuel** than any other engine made.

First. The arrangement of the inlet and exhaust valves is such that the incoming gas completely surrounds the exhaust valve, not only serving to cool the latter, but to warm the incoming charge.

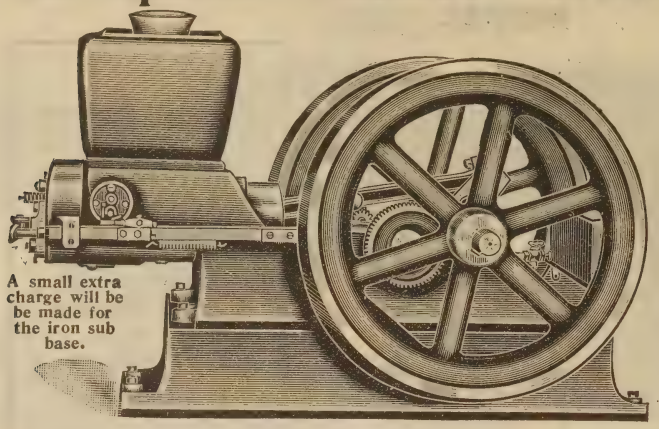
Second. The use of an auxilary exhaust, whereby nearly the whole of the exhaust gas is discharged through a free passage, thus avoiding the heating of the exhaust valve proper.

Third. By the application of our arrangement for obtaining a VARIABLE COMPRESSION, we have less interior surface of the cylinder exposed to the heating. By means of extremely thin, and exceptionally deep corrugations on the exterior of the cylinder, we obtain a maximum of radiating surface.

Fourth. By means of the VARIABLE COMPRESSION, the expansion of the gas is carried to a greater degree, thereby utilizing more of the energy, and discharging at a lower temperature.

Fifth. This engine is eliminated of the use of gears, by applying an eccentric on the crank shaft, which operates the exhaust valve. This arrangement when once set, makes it impossible for the novice to change the timing of the valve mechanism, which frequently occurs when gears are used, and causes trouble. The use of this devise results in a practically NOISELESS ENGINE, and also a much greater regularity of governor. If you have not seen these machines in operation you should do so at once. You should have one now, for otherwise you will never truly realize what the **Little Dandy** can do for you. If we have not made ourselves perfectly clear on these engines and mixers, kindly write us for further information, and do not hesitate to ask all the questions you wish on same, and we will try and give you correct answer by return mail, also quote prices and terms.

Our Special "Success" Gasoline Engine.



A small extra charge will be be made for the iron sub base.

"SUCCESS" No. 4.

Our Frost Proof Engines have no superior, and we cannot recommend them too highly. By systematic experiment and conclusive demonstration we have found that **it is unnecessary to use a large volume of water to successfully cool a gasoline engine,** it being necessary only to have sufficient water to radiate the dry heat created by the continual ignition of gas in the engine cylinder.

In our Open Jacket Engine this is effectually done. The temperature of the water will in a very short time rise to boiling heat, and the water boils around the engine cylinder the same as in a tea kettle and the heat passes off in vapor or steam. The only additional water required is to supply such as passes off in vapor or steam. **If desired a solution of calcium chloride or non-freezing solution may be added to the water, making a frost proof engine.** The calcium chloride is harmless and will not corrode or injure the engine cylinder. But if you do not wish to use the non-freezing solution, the open jacket contains only a few pails of water and it requires but a moment's time to open the valve and allow the water to run out when the engine is not in use. In fact, a large per cent of users prefer to do this rather than to use the non-freezing solution. As with all our engines the speed of this engine is controlled by a governor, so as to be uniform and regular, but it can be varied by the operator within a certain range to suit the machinery to be run.

FUEL. Our engines are designed for operating on gasoline but if desired kerosene, naphtha, distillate or alcohol may be substituted without any change in the mixing chamber, and by supplying special valves and gas bag or manufactured gas may be used in the engines.

ECONOMY. The cost of fuel is practically the only operating expense of one of our engines. The gasoline or fuel is positive in the regulation of fuel to the engine. The gasoline and air are practically mixed outside of the cylinder, and drawn in as a gas, consequently no liquid fuel is ever drawn into the cylinder and wasted. No engineer is required as the governor regulates the speed of the engine and the fuel valve needs no adjustment after the engine is started. In fact it requires no attention from the time of starting until it is stopped, aside from supplying fuel and lubricating oil. Almost any person can successfully operate our engines.

CRANK SHAFTS are forged from a solid piece of steel—not a weld in them. They are turned and finished in the most perfect manner possible and are of sufficient strength to resist twice the strain of the work they are called upon to do. Our crank shafts are extra long so that a common pulley may be keyed on the shaft instead of the cheap way of bolting the pulley to the spokes of the wheels and requiring the use of a special pulley. Our pulleys are usually placed on the opposite side from the working parts of the engine, but may be placed on the reverse side when specially ordered.

CONNECTING RODS. Our connecting rods are of modern design being I-beam in section and form which insures great strength and stiffness. The crank end of the rod is constructed with lock nut and bolt and is a very simple adjustment. The arrangement is very durable and substantial.

THE GOVERNOR. The governor is of special design to meet the requirements of our engine. It is operated by gear on the side of the engine base, is positive in action, simple in construction, and perfectly controls the speed of the engine, and at the same time cuts off the supply of gasoline so that when less than the full power of the engine is used a proportionately less supply of gasoline will be consumed. Our governor also has the distinct feature of permitting the speed of the engine to be varied while the engine is in motion. The controlling lever being near the open end of the cylinder. By simply moving the lever toward the cylinder head, the speed of the engine will be increased until you reach the extreme limit, and by moving the lever forward, the speed will be decreased. Our speed regulating lever is a feature of much merit and should be taken into consideration by prospective engine buyers.

CYLINDER HEAD. The cylinder head is water jacketed and fits accurately to insure a tight joint, and is securely bolted to the engine cylinder with strong stud bolts. Both the inlet valve and exhaust valve are steel forged turned and finished and bolted, located in the cylinder head and held in place by the valve springs.

THE PISTON. The Piston is made of fine close grain iron with heavy castings in the center to receive the wrist pin. The wrist pin is turned from a solid piece of machine steel and is very durable. Piston is turned to an exact fit with circular packing rings, with lap joint and insures strong compression. The cylinder is also made of special close grained iron and bored on our special boring machine.

BALANCE WHEELS. All of our gasoline engines are equipped with two balance wheels. These wheels are turned and finished in a boring machine and balance perfectly.

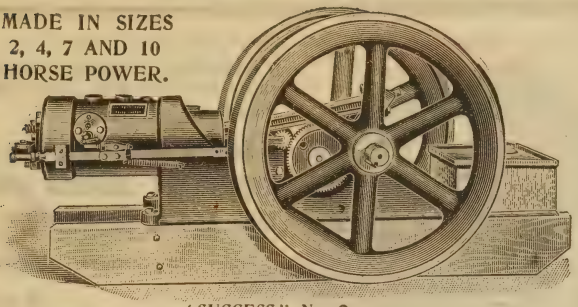
THE VITAL PARTS.

THE IGNITER. In describing the mechanical construction of our gasoline engines, we wish to say that we consider the igniter and mixing chamber the two important features for your consideration and they might properly be referred to as the heart and lungs of the engine, being the vital parts of the construction. We spark our gasoline engines with electric igniter. Our electric igniter is of the hammer brake pattern having meteor wire points which prevent corroding and always insure a bright spark. The points of the igniter are always out of contact except when the igniter lever brigns them together for the purpose of making the electric spark. The igniter is operated only when a charge of gas is to be ignited and thus saves the wear of the igniter parts, and the use of the battery. By releasing two cap screws, the entire igniter may be removed from the engine cylinder.

MIXING CHAMBER. Our mixing chamber is of ingenious construction. The suction feed, without the use of the gasoline pump, draws the fuel to the mixing chamber. The gasoline in the mixing chamber is vaporized by the current of air drawn in the mixing chamber by the suction of the engine's piston; the supply of gasoline being regulated by the throttle valve. Through the intake valve the engine is then supplied with the proper quantity of gas, and the throttle valve once adjusted needs no further change.

What The Success Gasoline Engine Will Do!

MADE IN SIZES
2, 4, 7 AND 10
HORSE POWER.



"SUCCESS" No. 2.

Our Success Gasoline Engines are in use all over the world in elevators, factories, machine shops, blacksmith shops, printing offices, restaurants, foundries, bakeries, laundries and on the farm.

HOW THEY ARE MADE.

Our Success Gasoline Engines are all built on the horizontal plan for the reason that the piston lubricates better than on a vertical engine, and it is much easier to adjust the connecting rod, valve gears or any of the other working parts of the engine that may, from constant use, require attention.

They are built on the alternating or four cycle principle having an impulse at each second revolution. The piston on the first outward stroke draws in through the intake valve a charge of gas which is automatically regulated by the throttle valve. On the return stroke of the piston the gas is compressed and ignited by an electric spark which drives the piston on the next outward or power stroke. The return of the piston drives out the burned gas through the exhaust valve, then the operations are repeated. If the work being performed does not require continuous ignition of gas in the cylinder the governor will hold open the exhaust valve and lock the admitting valve. In this manner the speed of the engine is controlled, and the fuel consumption is regulated to the closest economy.

DURABILITY. Our Success Gasoline Engines are well and substantially constructed of the best material, by skilled mechanics, and are so durable that we have no hesitancy in extending to users our five years' guarantee. Engines are built on the interchangeable plan, all parts being made from jigs and templates, each and every part of the same kind being perfect duplicates, so in future years repairs that may be required can readily be replaced without delay.

SIMPLICITY. All the working parts of the Success Gasoline Engine are exposed to view and the duty of each part is readily understood by the users of the engine. The construction of our engines is such that they combine great strength and durability. It has been our constant study to do away with all extra parts and simplify the construction as much as possible.

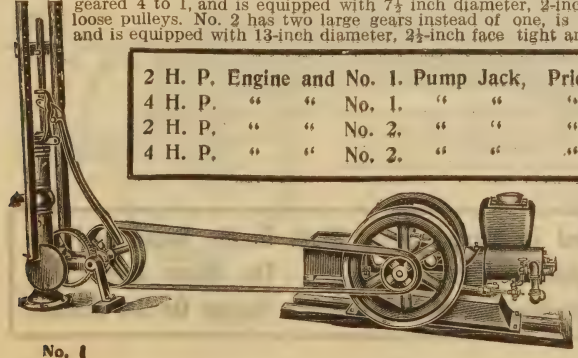
Our 4 H.P. engine will run a 22 to 30" saw cutting sticks 10 by 10 inches.
It will operate a grinder, grinding 20 bushels of grain per hour in an average small grain mill.
It will run a two-hole corn sheller with carrier.
It will run a cob crusher up to 20 bushels per hour.
It will operate any churn, cream separator or washing machine with ease.
Attached to a dynamo it will furnish thirty, sixteen candle power incandescent lights.
It will pump 4,200 gallons of water per minute, estimating 100 ft. lift.

"Success" No. 4, With Back Geared Pump Jack.

The Success Gasoline Engine with **Back Geared Pump Jack** is the most satisfactory arrangement for pumping water now on the market. It is superior to any wind mill manufactured, for the reason that it is always ready no matter what kind of weather. **Whether the day is hot or cold the Success Gasoline Engine** and **Back Geared Pump Jack are always ready.** Besides this the Success Engine and Back Geared Pump Jack can be purchased at a lower figure than a windmill, and you cannot only pump water' **but you can run your cream separator, churn, washing machine, grind stone, feed grinder** and numerous other machinery on the farm.

This convenient and inexpensive device is made to attach to any ordinary pump with windmill top. It is constructed in a practical and mechanical manner; very durable and has met with a large sale. It is especially convenient in cases where gasoline engine or other belt power is used interchangeable with a windmill to operate the same pump. As the illustration will show, the pitman of this attachment connects with the pump at the same place the handle of the pump is connected, so that in connecting it up it is only necessary to take out the pin, letting the handle drop down, attaching the pitman in the same place. We make these jacks in two sizes. No. 1 is shown in the accompanying cut and is back-geared 4 to 1, and is equipped with 7½ inch diameter, 2-inch face, tight and loose pulleys. No. 2 has two large gears instead of one, is back-geared 9 to 1, and is equipped with 13-inch diameter, 2½-inch face tight and loose pulleys.

2 H. P.	Engine	and	No. 1.	Pump	Jack,	Price.....	$ 61.00
4 H. P.	"	"	No. 1.	"	"	"	106.60
2 H. P.	"	"	No. 2.	"	"	"	63.00
4 H. P.	"	"	No. 2.	"	"	"	108.50

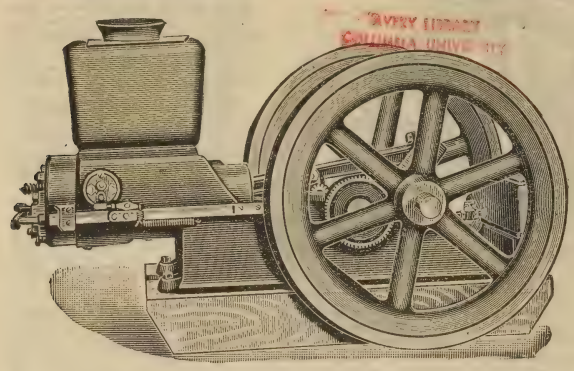


No. 1

A SMALL EXTRA CHARGE WILL BE MADE ON THE IRON SUB BASE.

No. 2.

SUCCESS GASOLINE ENGINES



Successful in every way. Sold on thirty days' free trial. Guaranteed for five years.

$49.75 BUYS OUR 2-H. P. STATIONARY SUCCESS GASOLINE ENGINE COMPLETE.

Prices on Stationary Gasoline Engines.

2 H.P.	$49.75
4 H.P.	96.75
7 H.P.	177.50
10 H.P.	265.00

The above prices are not for the engine alone, but include electric igniter, battery, lubricator, grease cups, pulley, supply tank, starting crank, one can lubricating oil, one pound hard oil, oil can, pair of pliers and in fact a complete outfit ready for use.

SPECIAL FEATURES.

The Success Gasoline Engines are very simple to operate, and are guaranteed to be successful in every way. This is the reason we are ready to ship you one of our Success Gasoline Engines on **Thirty Days' Free Trial,** allowing you to test and run it and compare it with any other make gasoline engine. You take no chance whatever by buying our Success.

Gasoline Engine for the engine must be all that the name implies. All that we ask is that you take and test the engine, and if you are dissatisfied for any reason, the engine may be returned to our factory and we will refund the price paid.

FIVE YEARS' GUARANTEE. After you have received your gasoline engine and are satisfied after thirty days' free trial, we are then ready to give you our five year binding guarantee. This means that if any part of the Success Gasoline Engine should show a defective part in workmanship or material within five years from the date of purchase, that we will furnish any parts that may be required to replace such defective parts free of charge.

CARE REQUIRED. In buying a gasoline engine we do not want to lead you to believe that it is a machine that requires no care or attention, but we are willing to leave it to your good judgment. If you will properly lubricate and otherwise care for the engine so that it will have a fair test, you will have no trouble with the Success Gasoline Engine.

TESTING. Each one of our engines is thoroughly tested, first by the man who builds it, then by the expert who passes upon it, and lastly by the shipping clerk before it is crated. Thus every engine before leaving our factory has three tests. The object of these tests is to show that the engine has no defective parts, and that it will develop the actual horse power as rated. If it passes these severe tests, it is then securely crated and shipped out all ready for use.

FULL THIRTY DAYS' FREE TRIAL. We will allow you full thirty days after you receive the engine to test it to your own satisfaction. If at the end of the trial period you do not find the engine as we represent it, you may return it to us at our expense.

WHAT GOES WITH EACH ENGINE. Each engine is fitted with one gasoline tank, and in case of the Water Cooled, one galvanized water tank; necessary piping and valves, one battery box, six dry cells, one spark coil, one switch, necessary grease cups and oil cups, one starting crank, one muffler, necessary wrenches, one oil can, one quart of cylinder oil, one pound of hard oil, one pair of pliers, one book of instructions for operating the engine, and illustrated price list of repairs.

Stationary engines in addition to the above are equipped with pulleys as follows:

2 H.P.—10 inches in diameter, 6 inch face.
4 H.P.—12 inches in diameter, 6 inch face.
7 H.P.—14 inches in diameter, 8 inch face.
10 H.P.—16 inches in diameter, 8 inch face.

These Engines Are Installed in Almost Every State in the Union And Are Giving First Class Satisfaction in Every Particular. The Many Uses They Can Be Put to Makes Them the Peer of Any Gasoline Engine On the Market.

$62.50 Buys the "Success" Hand Portable 2 H. P. Gasoline Engine.

Our Success Hand Portable Gasoline Engines are built in sizes 2 and 4 H.P. They are mounted on low trucks with iron wheels 18" in diameter and iron axles, with small tongue. **They are convenient to move from place to place on the farm.** The length over all of the 2 H.P. hand portable engine is 5 ft. and the 4 H.P. Hand portable engine 5 ft. 8 in. This mounting is most satisfactory for all farm purposes

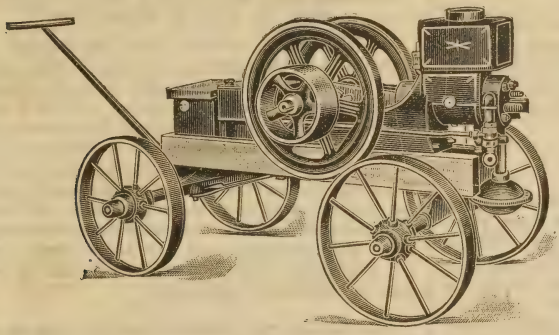
$108.50 BUYS THE 4 H. P. SUCCESS HAND PORTABLE GASOLINE ENGINE. **$108.50**

The Success Gasoline Engines are constructed in two styles, the water cooled with separate cooling tank, and the frost proof open jacket with cooling tank situated immediately above the cylinder and attached thereto.

The 2 H.P. Hand Portable Engine is equipped with 10 by 6 common pulley.

The 4 H.P. Hand Portable Engine is equipped with 12 by 6 common pulley.

Hand Portable Engines are equipped with the same style and size pulleys as the stationary engines, and are mounted on low iron trucks.



OUR MONTHLY MACHINERY BULLETIN WILL BE MAILED YOU ON REQUEST.

$265.00 BUYS A 7 H. P. SUCCESS STANDARD PORTABLE GASOLINE ENGINE. **$265.00**

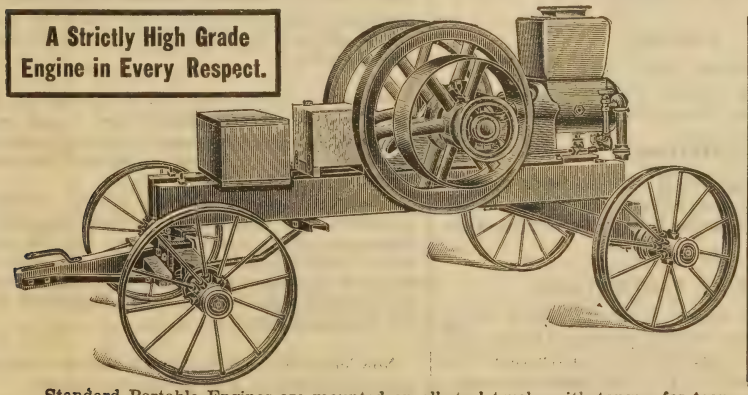
The Success Standard Portable Gasoline Engines are in general use operating well drills, threshing machines, corn shredders, corn shellers, hay balers and wood saws. They are fast taking the place of steam traction engines, because of their cheapness in operation and because they are much more convenient. These engines we build for the use of farmers, contractors, threshers, well drillers and all other persons needing power.

Our Success Gasoline Engines are especially designed to be easily understood and operated. It is not necessary to have experts in order to operate them successfully. We have been selling these engines for years, shipping them into all parts of the United States and to men who never before operated a gasoline engine. These men have had excellent success in operating our engines. One great advantage is that this engine requires but little water to a small amount of fuel.

$340.00 BUYS A 10 H. P. SUCCESS STANDARD PORTABLE GASOLINE ENGINE. **$340.00**

The Success Standard Portable Gasoline Engine is built in two styles, the water cooled, with separate cooling tank, and the frost proof open jacket with cooling tank situated immediately above the cylinder and attached thereto. These engines are mounted on heavy trucks with iron wheels and wood channels, **The 7 H. P. Success Standard Portable Engine** is equipped with 24 by 6 friction clutch pulley **The 10 H. P. Success Standard Portable Engine** is equipped with 30 by 8 friction clutch pulley.

A Strictly High Grade Engine in Every Respect.



WILL STAND COMPARISON WITH THE VERY BEST ENGINES IN THE MARKET TO-DAY.

Standard Portable Engines are mounted on all-steel trucks with tongue for team and are equipped with friction clutch pulleys as follows:

4 H.P.—14 inches in diameter, 6 inch face.
7 H.P.—24 inches in diameter, 6 inch face.
10 H.P.—30 inches in diameter, 8 inch face.

MISCELLANEOUS MACHINERY LIST

SAW MILL MACHINERY.

We also draw your attention to our strictly brand new AMERICAN SAW MILL MACHINERY, which we consider the most up-to-date line manufactured today. We carry these saw mills in stock and by purchasing an engine and boiler from us you can arrange to make up a carload, thereby benefiting considerably in freight rates.

GASOLINE ENGINES.

We pride ourselves in having the best, most up-to-date and cheapest gasoline engine on the market. Complete descriptive matter is furnished you, and all we ask is that you try one of these engines and satisfy yourself fully as to all the merits we claim for it.

BOILERS.

This is one of our best departments and we pride ourselves on having one of the most thorough and equipped shops in the country. We do not make a business of buying boilers that are patched or bagged, or having any fire cracks or blisters, as we make the most thorough inspection before purchasing and fully satisfy ourselves that each and every boiler is in the most perfect physical condition.

Prior to shipment these boilers are all brought to our shops, where they are thoroughly gone over, cleaned, tubes showing excessive signs of wear replaced and in addition thereto tested out to a hydrostatic pressure and made positively tight under pressure. With each boiler we furnish a policy for $500, good for one year from date, in one of the most responsible Insurance Companies in the United States, allowing the pressure we claim for it. Before shipment these boilers are passed on by the Insurance Company's Inspector and test is made under his personal supervision. Our boilers are equipped with the following:

CASTINGS.

Grate Bars, Bearing Bars, Fire Liners, Dead Plate, Combustion Chamber Door and Frame, Buck Stays and Binding Bars, and

FITTINGS.

One Combination Water Column with gauges, one Steam Gauge and Syphon, one Safety Valve, one Blow-Off Valve, one Check Valve, one Stop Valve.

HIGH GRADE POWER PLANTS.

We have at all times one of the largest stocks of Belting, Packing, Piping, Roofing, Lumber and other material entering into the construction of a complete power plant. You will readily appreciate the advantage of being in position to load out all the material you require from one central point. Not alone will there be a saving in time in the purchase of your outfit but in freight rates as well as we can invariably supply you with all you need, thereby enabling you to make up your shipments in carloads.

A visit to our plant is earnestly solicited and every facility will be afforded you for the inspection of all items that you may be interested in.

CHICAGO CITY RY. POWER PLANTS CAN BE SEEN IN ACTUAL OPERATION.

We have just purchased from the Chicago City Railway Company, Chicago, Ill., their large electric current Power Plants, consisting of Corliss Engines, Boilers, Pumps, Heaters, Generators, etc., all of which can be inspected on their original foundations. We want to impress upon your minds that this machinery is strictly up-to-date, in excellent condition, and show practically no signs of wear, and shipments can be made direct from their present location. We invite your inspection of any of the machinery contained in these different Plants and will afford every facility for a thorough and complete examination of every part in connection with same.

The Chicago City Railway Company had the best force of Engineers in charge of this machinery that could be obtained and it has been kept strictly first-class. The only reason they had for disposing of this machinery is because they have made arrangements to take their electric current from the Edison Co., therefore, have no further need of these plants.

We earnestly solicit your inquiries and inspection of this material and if in the market for a power outfit, we know that you cannot do better in quality or price on the different outfits that we have in these three plants. We invite all who are interested to come to Chicago at once and go over these different plants with us, as they will not be on our selling list very long. We solicit your inquiries for further information, description and price on any of this machinery and we will at all times cheerfully give same at the earliest possible moment.

We cannot impress upon you too strongly the good condition that this machinery is now in and we feel confident an inspection of same by the most competent Engineers, will carry out our assertions in the matter.

Remember that this machinery is on its original foundation and will remain so until disposed of. Shipments will be made direct, and this will give a better chance to make thorough examinations. We also wish to state that at the present time, most of this machinery can be seen in actual operation which is a very good point in its favor.

Now let us have your inquiries as well as a visit from you if interested, at your earliest convenience.

The different Plants consist of the following machinery:

MISCELLANEOUS MACHINERY LIST---Continued

52ND STREET ELECTRIC PLANT.

10—24″x48″ Single Cylinder Corliss Engines.

10—500 K. W., 500 Volt Westinghouse D. C. Generators, 300 R. P. M. Rope Driven.

10—Complete Generator Panels.

10—Two Feeder Panels.

2—One Feeder Panels.

13—72″x20′ Return Tubular Boilers, with Murphy Furnaces.

3—2,000 H. P. Closed Heaters, Brass Tubers.

3—Exhaust Steam Injectors.

4—24″x48″ Single Cylinder Corliss Engines.

3—300 H. P. Vertical Hazelton Boilers, with Roney Stokers.

2—500 H. P. Closed Feed Water Heaters.

1—12″x8″x14″ Worthington Duplex Pump.

OAKLEY AV. ELECTRIC PLANT.

6—36″x60″ Single Cylinder Corliss Engines.

6—880 K. W., 525 Volt, 220 R. P. M. Walker D. C. Generators.

24—78″x20″ John Mohr Tubular Boilers, with Murphy Furnaces.

2—14″x8½″x10″ Worthington Duplex Pumps.

1—10″x6″x10″ Worthington Duplex Pump.

1—8″x10″ D. C. Hoisting Engine.

1—Cylinder Boring Equipment, with 4x″6″ Vertical Engine.

1—18″ Power Drill Press.

1—10 H. P. Kirkwood Engine.

1—400 K. W. General Electric D. C. Generator, 100 volt, 300 R. P. M., direct connected to Westinghouse, 500 H. P., D. C. Motor.

1—70 Ton Howe Scale.

1—8″ Pipe Machine.

21ST STREET ELECTRIC PLANT.

2—32″x60″ Single Cylinder Corliss Engines, Direct Connected to 650 K. W. General Electric 520 and 575 Volt Generators.

1—30″x62″x60″ Fulton Iron Works Cross Compound Corliss Engine, Direct Connected to 1,200 K. W. General Electric Generators, Switchboard and gravity oil system.

7—1,000 H. P. Hamler Feed Water Heaters.

4—9″x6″x10″ Worthington Duplex Steam Pumps.

2—15 ton Platform Scales.

CORLISS ENGINES.

E. O. 307—12″x30″ L. H. Allis, Girder Frame H. P. 75.

E. 5—14″x42″ L. H. Allis, Girder Frame, H. P. 128.

E. O. 255—18″x42″ R. H. Allis, Girder Frame, H. P. 225.

E. O. N. M.—24″x48″ L. H. Allis, Girder Frame, H. P. 350.

E. O. 550—10 Pairs 24″x48″ Wheelock, Girder Frame Engines, H. P. 1,000.

E. O. 600—28″x60″ L. H. Hamilton, Girder Frame, H. P. 650.

E. 6—14″x28″ R. H. Wood, Girder Frame, H. P. 115.

E. O. 900—18″x34″x48″ Hamilton Cross Compound, H. P. 500.

E. O. 950—22″x48″″x48″ S. & G. Cooper Tandem Compound, H. P. 700.

THROTTLING GOVERNOR ENGINES.

Write for description and price.

E. O. 256—7″x 8″ C. C. Orr & Sembower Slide Valve H. P. 10.

E. O. 264—7″x 8″ C. C. Frost, Slide Valve, H. P. 10.

E. O. 279—7″x10″ C. C. Richards, Slide Valve, New, H. P. 15.

E. O. 281—7″x10″ C. C. Richards, Slide Valve, New, H. P. 15.

E. O. 283—7″x10″ C. C. Richards, Slide Valve, New, H. P. 15.

E. O. 285—7″x10″ C. C. Richards, Slide Valve, New, H. P. 15.

E. O. 286— 7″x10″, C. C., Richards, Slide Valve, New, H. P. 15.

E. O. 193— 8″x12″, C. C., Erie, Slide Valve, H. P. 20.

E. O. 271— 8″x12″, C. C., Richards, Slide Valve, New, H. P. 20.

E. O. 280— 8″x12″, C. C., Richards, Slide Valve, New, H. P. 20.

E. O. 282— 8″x12″, C. C., Richards, Slide Valve, New, H. P. 20.

E. O. 284— 8″x12″, C. C., Richards, Slide Valve, New, H. P. 20.

E. O. 156— 9″x14″, C. C., Erie, Slide Valve, H. P. 25.

E. O. 215— 9″x12″, C. C., Erie, Slide Valve, H. P. 25.

E. O. 220— 9″x14″, C. C., Slide Valve, H. P. 25.

E. O. 221— 9″x12″, C. C., Slide Valve, H. P. 25.

E. O. 265— 9″x10″, Self Contained, Ames, Slide Valve, H. P. 20.

E. O. 274— 9″x14″, L. H., Slide Valve, H. P. 25.

E. O. 228—10″x12″, C. C., Atlas, Slide Valve, H. P. 40.

E. O. 254—10″x12″, Self-Contained, Sub-Base, Taylor, Slide Valve, H. P. 50.

E. O. 165—11″x16″, L. H., Atlas, Slide Valve, H. P. 50.

E. O. 208—11″x16″, R. H., Atlas, Slide Valve, H. P. 50.

E. O. 277—11″x16″, C. C., Atlas, Slide Valve, H. P. 50.

E. O. 13—13″x12″, C. C., Ball, Slide Valve, H. P. 75.

E. O. 18—14″x18″, C. C., Nagle, Slide Valve, H. P. 85.

E. O. 246—14″x22″, Self-Contained, Huston-Stanwood, Slide Valve, H. P. 100.

E. O. 244—14″x22″, Self-Contained, Huston-Stanwood, Slide Valve, H. P. 100.

E. O. 267—14″x18″, L. H., Erie, Slide Valve, H. P. 80.

E. O. 290—14″x20″, L. H., Atlas, Slide Valve, H. P. 90.

E. O. 40—16″x24″, R. H., Frazer & Chalmers, Slide Valve, H. P. 125.

E. O. 66—16″x24″, R. H., Atlas, Slide Valve, H. P. 125.

E. O. 146—16″x24″, R. H., Atlas, Slide Valve, H. P. 125.

E. O. 142—18″x30″, R. H., Brownell, Slide Valve, H. P. 250 (approx.).

MISCELLANEOUS MACHINERY LIST---Continued

AUTOMATIC ENGINES.

Write for Descriptions and Prices.

E. O. 289—8x14x12, C. C., McEwen, Tandem-Compound-Auto., H. P. 50—$150.
E. O. 287—10"x16", C. C., Sweet Straight Pine-Auto., H. P., 50—$150.
E. O. 276—14"x24", R. H., Cummer-Auto., H. P. 125—$150.
E. O. 162— 9"x14", R. H., Atlas-Auto., H. P. 40.
E. O. 219— 9"x14", C. C., Bay State-Auto., H. P. 40.
E. O. 138—10"x15", R. H., Payne-Auto., H. P. 50.
E. O. 160—10"x16", L. H., Atlas-Auto., H. P. 55.
E. O. 164—10"x16", L. H., Atlas-Auto., H. P. 50.
E. O. 242—10"x16", L. H., Brownell-Auto., H. P. 50.
E. O. 293—10"x16", R. H., Atlas-Auto., H. P. 50.
E. O. 240—11"x24", L. H., Fitchburg-Auto., H. P. 75.
E. O. 243—12"x18", R. H., Atlas-Auto., H. P. 85.
E. O. 129—12"x20", L. H., Atlas-Auto., H. P. 85.
E. O. 85—15"x15", C. C., Buckeye-Auto., H. P. 150.
E. O. 153—16"x18", C. C., Atlas-Auto., H. P. 162.
E. O. 154—16"x18", C. C., Atlas-Auto., H. P. 162.
E. O. 257—16"x24", R. H., Atlas-Auto., H. P. 210.
E. O. 303—16"x16", C. C., Ball, Sub-Base, Auto., H. P. 175.
E. O. 302—16"x16", C. C., Ball, Sub-Base, Auto., H. P. 175.
E. O. 304—16"x18", C. C., Atlas-Auto., H. P. 162.
E. O. 300—18"x24", R. H., Atlas-Auto., H. P. 225.
E. O. 248—18"x24", R. H., Atlas-Auto., H. P. 275.

SPECIAL HORIZONTAL ENGINES WITH PRICES

E. O. 268—3"x5", R. H., Slide Valve, H. P. 4—$30.
E. O. 83—4½"x6", C. C., Slide Valve, H. P. 7—$45.
E. O. 05—5"x7½", C. C., Erie, Slide Valve, H. P. 6—$65.
E. O. 63— 6"x10", Self-Contained, Slide Valve, H. P. 8—$75.
E. O. 210— 6"x 9", C. C., Ide, Slide Valve, H. P. 8—$75.
E. O. 230— 6"x12", L. H., Slide Valve, H. P. 10—$75.
E. O. 298— 6"x 8", C. C., Skinner, Slide Valve, H. P. 7—$60.
E. O. 34— 7"x10", R. H., Slide Valve, H. P. 10—$65.
E. O. 130— 7"x 9", C. C., Erie City, Slide Valve, H. P. 10—$85.
E. O. 229— 7"x10", R. H., Erie, Slide Valve, H. P. 15—$85.
E. O. 266— 7"x11", L. H., Erie, Slide Valve, H. P. 15—$65.
E. O. 269— 7"x10", C. C., Reasser & Baker, Slide Valve, H. P. 15—$70.
E. O. 278— 7"x10", C. C., Richards, Slide Valve, New, H. P. 15—$125.
E. O. 224— 8"x10", C. C., Nagle, Slide Valve, H. P. 18—$100.
E. O. 270— 8"x12", L. H., Columbia Iron Works, Slide Valve, H. P. 20—$90.
E. O. 272— 8"x16", L. H., Slide Valve, H. P. 22—$90.
E. O. 273— 8"x14", R. H., Slide Valve, H. P. 20—$90.
E. O. 272— 8"x16", L. H., Slide Valve, H. P. 20—$90.
E. O. 39—10"x16", L. H., Slide Valve, H. P. 40—$145.
E. O. 78—10"x20", L. H., Bass, Slide Valve, H. P. 45—$125.
E. O. 102—10"x20", L. H., Greenwald, Slide Valve, H. P. 45—$125.
E. O. 124—10"x12", C. C., Dempster, Slide Valve, H. P. 40—$125.
E. O. 234—10"x16", R. H., Furness, Slide Valve, H. P. 40—$145.
E. O. 222—14½"x22", L. H., Frost, Slide Valve, H. P. 100—$200.

VERTICAL ENGINES WITH PRICES.

E. O. 33—2½"x3½", C. C., Reversible, Marine, H. P. 2½—$30.
E. O. 6—2½"x4", C. C., Uppenheimer, Vertical, Slide Valve, H. P. 2—$25.
E. O. 297—6 3"x4", Oscillating Engines, H. P. 3—Each, $30.
E. O. 261—3"x3½", C. C., Slide Valve, H. P. 3—$35.
E. O. 259—3x5, C. C., Reversible, Marine, H. P. 3—$30.
E. O. 179 to 192—10 3"x5", C. C., Slide Valves, H. P. 3—Each, $35.
E. O. 84—3"x4", C. C., Slide Valve, H. P. 3—$35.
E. O. 9—3"x4½", C. C., Slide Valve, H. P. 3—$35.
E. O. 223—3½x5, C. C., New York Safety, Slide Valve, H. P. 3½—$45.
E. O. 252—5"x6", C. C., Hill & Co., Auto., H. P 6—$65.
E. O. 250—5"x7", C. C., New York Safety, Auto., H. P. 10—$65.
E. O. 238—5"x8", C. C., New York Safety, Slide Valve, H. P. 6—$65.
E. O. 116—7x9, Rice & Whittaker, Oscillating, H. P. 15—$75.
E. O. 295—12x16, C. C., Slide Valve, H. P. 60—$150.
E. 2—7x9, S. C., Slide Valve, H. P. 12—$100.
E. 1—4x7, C. C., New York Safety, H. P. 6—$65.

TRACTION ENGINES.

E. O. 167—1 Huber Traction Engine, 12 H. P.
E. O. 168—1 Huber Traction Engine, 12 H. P.
E. O. 73—1 Frick Traction Engine, 16 H. P.
E. O. 74—1 New Birdsall Traction Engine, 15 H. P.
E. O. 75—1 Nichols & Shepard Traction Engine, 12 H. P.
E. O. 61—1 Nichols & Shepard Traction Engine, 12 H. P.
E. O. 70—1 Gaar-Scott & Co. Traction Engine, 10 H. P.
E. O. 58—1 Gaar-Scott & Co. Traction Engine, 10 H. P.
E. O. 57—1 Gaar-Scott & Co. Traction Engine. 10 H. P.
E. O. 69—1 Gaar-Scott & Co. Portable Outfit, 8 H. P.
E. O. 119—1 Russell Traction Engine, 12 H. P.
E. O. 120—1 Aultman Traction Engine, 12 H. P.
E. O. 263—1 Aultman & Co. Traction Engine, 12 H. P.
E. O. 166—1 Huber Portable Outfit, 12 H. P.
E. O. 241—1 Colean Traction Engine, 25 H. P.

Write for description and prices.

MISCELLANEOUS MACHINERY LIST---Continued

PUMPS.

P. O. 35—3"x2"x3" No. 3 Ohio Duplex, suction 1¼", discharge 1".

P. O. —3"x2"x3" Worthington Duplex.

P. O. 72—3"x2"x3" Deane Duplex, suction, 1", discharge ¾".

P. O. 78—Deane Duplex, 3"x2"x3", suction 1", discharge ¾".

P. O. 44—4"x3⅝"x4" Tappan Single Acting, suction 1½", discharge 1¼".

P. O. 4—4½"x2¾"x4" Buffalo Duplex, suction 1½", discharge 1¼".

P. O. 23—4½x2¾"x4" Worthington Duplex, suction 1½", discharge 1¼".

P. O. 28—4½"x2¾"x4" Worthington Duplex, suction 1½", discharge 1¼".

P. O. 32—4½"x2¾"x4" Smithvaite Duplex, suction 1½", discharge 1¼".

P. O. 43—4½"x2¾"x4" Laidlaw-Dunn-Gordon Duplex, suction 2", discharge 1½".

P. O. 48—4½"x2¾"x4" Deane Duplex, suction 2", discharge 1½".

P. O. 62—4½"x2¾"x4" Worthington Duplex, suction 2", discharge 1½".

P. O. 71—4½"x2¾"x4" Worthington Duplex, suction 1½", discharge 1¼".

P. O. 77—4½"x2¾"x4" Gardner Duplex, suction 1½", discharge 1¼".

P. O. 14—No. 4 Furness Bros. Single Acting, size 5½"x3¾"x7", suction 2", discharge 1½".

P. O. 107—No. 4 Blake Single Acting, size 5½"x 3¾"x7", suction 2", discharge 1½".

P. O. 42—5"x3"x6" American Single Acting, suction 2", discharge 1½".

P. O. 89—5"x3¼"x7" Deane No. 3 Single Acting, suction 2", discharge 1½".

P. O. 22—5¼"x3½"x6" Knowles Duplex, suction 2", discharge 1½".

P. O. 34—5¼"x3½"x5" Worthington Duplex, suction 2", discharge 1½".

P. O. 57—5¼"x3½"x5" Deane Duplex, suction 2", discharge 1½".

P. O. 106—5¼"x3½"x5" Deane Duplex, suction 2½", discharge 2".

P. O. 108—5½"x3½"x5" Snow Duplex, suction 2", discharge 1½".

P. O. 36—6"x3⅝"x8" No. 7 Marsh Single Acting, suction 2½", discharge 2".

P. O. 39—6"x4"x6" Furness Bros. Duplex, suction 2½", discharge 2".

P. O. 45—6"x4"x6" L. D. Gordon Duplex, suction 3", discharge 2".

P. O. 66—6"x4"x6" Worthington Duplex, suction 3", discharge 2".

P. O. 104—6"x4"x10" Duplex, suction 2½", discharge 2".

P. O. 103—6"x4"x6" Duplex, suction 2½", discharge 2".

P. O. 80—6"x4"x6" Deane Duplex, suction 2½", discharge 2".

P. O. 86—7"x3¾"x12" Cameron No. 5, suction 4", discharge 3".

P. O. 76—7½"x4½"x10" Deane Duplex, suction 4", discharge 3".

P. O. 132—8"x12"x12" Smith-Vaile Duplex, suction 10", discharge 8".

P. O. 98—8"x2½"x10" Smith-Vaile Hydraulic, suction 2", discharge 1".

P. O. 87—9"x9"x10" Holly Single Acting, suction 3", discharge 2½".

P. O. 99—10"x1½"x12" Smith-Vaile Hydraulic, suction 2", discharge 1".

P. O. 85—10"x6"x13" Cameron No. 1, suction 6", discharge 5".

P. O. 109—10"x5½"x12" Marsh Single Acting.

P. O. 110—10"x5½"x12" Marsh Single Acting, suction 3", discharge 2½".

P. O. 111—10"x7"x12" Blake Duplex, suction 6", discharge 5".

P. O. 27—10"x6"x12" Blake Duplex, suction 5", discharge 4".

P. O. 500—2 14"x7"x10" Worthington Duplex, suction 5", discharge 4".

P. O. 400—2 16"x14"x10" Worthington Duplex, suction 8", discharge 7".

P. O. 300—2 20"x12½"x12" Wheeler & Tappan Duplex, suction 8", discharge 7".

P. O. 83—4"x4"x4" Moore Single Acting Vacuum.

P. O. 69—Johnson Co. Belt-Driven Centrifugal Pump, suction 2", discharge 1½".

P. O. 6—Taber Pump Co. Centrifugal Pump, suction 4", discharge 3".

P. 5—Knowles No. 4 Single Acting Pump. 4", discharge 2".

P. 1—Blake No. 7 Single Acting Pump. Steam 7", water cyl. 4", stroke 10", suct. 3½", dis. 2½".

P. 2—Blake No. 5 Single Acting Pump.. Steam 6", water 4", stroke 6", suc. 2½", dis. 2".

P. 3—Knowles No. 3 Single Acting Pump. Steam 3", water 2½", stroke 7", suc. 2", dis. 1½".

P. 4—Smedley Single Acting Pump. Steam 8", water 4", stroke 12", suc. 3", dis. 2½".

P. O. 5—Herberkamp Centrifugal Pump, suction Steam 3", water 2½", stroke 7", suc. 2", dis. 1½".

P. 6—Barr Duplex Steam Pump. Steam 6", water 4", stroke 6", suc. 2½", dis. 2".

P. 7—Hooker No. 5 Single Acting Pump. Steam 4", water 3", stroke 7", suc. 2", dis. 1½".

P. 8—Blake No. 8 Single Acting Pump. Steam 9", water 5", stroke 12", suc. 3½", dis. 2½".

P. 9—Blake Vacuum Pump. Steam 14", water 7", stroke 10", suc. 3", dis. 3".

P. 10—Laidlow Drum Gordon Duplex. Steam 5¾", water 3½", stroke 6", suc. 2½", dis. 1½".

P. 11—Laidlow Drum Gordon Duplex. Steam 5¾", water 3½", stroke 6", suc. 2½", dis. 1½".

P. 13—Wheeler & Tappin Duplex. Steam 20", water 13", stroke 12", suc. 8", dis. 6".

P. 14—Wheeler & Tappin Duplex. Steam 20", water 13", stroke 12", suc. 8", dis. 6".

P. 15—Worthington Duplex. Steam 8", water 12", stroke 9", suc. 8", dis. 6".

P. 16—Worthington Duplex. Steam 14", water 7", stroke 10", suc. 5", dis. 4".

P. 17—Worthington Duplex. Steam 18", water 12", stroke 9", suc. 8", dis. 6".

P. 18—Worthington Duplex. Steam 14", water 7", stroke 10", suc. 5", dis. 4".

MISCELLANEOUS MACHINERY LIST---Continued

CENTRIFUGAL PUMPS.

P. O. 143—Van Wie, Centrifugal Pump, 15" suction, 21" discharge, belt driven.

P. O. 355—1 Centrifugal Pump, 3" suction, 2" discharge, direct connected to vertical engine, size 3½x4" cylinder.

P. O. 191—1 Centrifugal Pump, 4" suction, 3" discharge, belt driven.

P. O. 5—1 Centrifugal Pump, 4" suction, 2" discharge, belt driven.

P. O. 6—1 Centrifugal Taber Pump, 4" suction, 3" discharge, belt driven.

P. O. 69—1 Centrifugal Johnson Pump, 2" suction, 1½" discharge, belt driven.

P. O. 142—1 No. 4 Morris Centrifugal Pump, 4" suction, 3" discharge, belt driven.

P. O. 147—1 Dayton Centrifugal Pump, 5" suction, 4" discharge, belt driven.

P. O. 148—1 Gould Centrifugal Pump, 3½" suction, 2½" discharge, belt driven.

P. O. 150—1 Fairbanks-Morse Centrifugal Pump, 2" suction, 1½" discharge, belt driven.

P. O. 151—2 Rumsey Submerged Centrifugal Pumps, 3" suction, 2" discharge, belt driven.

P. O. 166—1 Demming Rotary Pump, 2" suction, 2" discharge, belt driven.

P. O. 168—3 Southwark Foundry & Machine Co. Centrifugal Pumps, 24" suction, 18"x 18" double discharge.

P. O. 175—4 Deane Deep Well Pumps, steam driven, size 12x24".

P. O. 300—1 Hooker Deep Well Pump, steam driven, size 6x24".

P. 12—1 No. 8 Morris Centrifugal Pump, direct connected to 8x12" vertical engine.

P. O. 212—1 No. 15 Morris Centrifugal Pump, direct connected to 10x9" vertical duplex engine.

HOISTING ENGINES AND BOILERS.

E. O. 306—1 12x15 Ledgerwood Dbl. Cyl., Dbl. Tandem Drum Link Motion Hoisting Engine.

E. O. 81—1 8x12 Mundy Dbl. Cyl., Dbl. Drum Hoisting Engine and Boiler.

E. O. 251—1 7x8 Mitchell Vertical, Single Drum Dbl. Cyl. Hoisting Engine.

E. O. 305—1 8½x12 Webster, Camp & Lane Dbl. Cyl., Single Drum.

E. O. 350—1 8¼x10 American Hoist. & Derrick Co. Dbl. Cyl., Dbl. Drum Hoisting Engine, with Swinging Boom Attachment.

E. O. 299—1 5x6 Stroudsburg Dbl. Cyl., Dbl. Drum Hoisting Engine and Boiler.

WATER TUBE AND FIRE BOX BOILERS.

					Approx. H. P.
B. 38—Heine,	113	3½"	tubes		200
B. 7—54x21,	45	3"	tubes,	open bottom...	65
B. 121—48x16,	48	3"	tubes,	open bottom...	60
B. 17—48x12,	46	3"	tubes,	open bottom...	45
B. 27—48x12,	52	3"	tubes,	open bottom...	45
B. 102—48x12,	32	3½"	tubes,	open bottom...	40
B. 131—42x10,	43	2½"	tubes,	open bottom...	45
B. 96—30x12,	26	2½"	tubes,	open bottom...	20

HORIZONTAL TUBULAR BOILERS.

We recently purchased from the Illinois Steel Co., of this city, the entire battery of 150 to 175 HORIZONTAL TUBULAR BOILERS, 72" in diameter, 20' long, rated 160 H. P. each. These are of the High Pressure Domeless type, shell plates ⅜", heads 9-16"; 16 McGregor braces in each head; eclipse manhole on top of shell and below line of tubes.

These boilers were operated under a pressure of 125 pounds of steam before being removed from the foundation. We can now secure insurance on them allowing a working pressure of 110 pounds. In fact, our proposition includes a Policy in the Maryland Casualty Co. for $500.00, good for one year from date, allowing the aforesaid pressure; and we furthermore guarantee that you can secure insurance on them for any amount you desire with the Maryland Casualty Co. at their regular insurance rates.

						Approx. H. P.
B. 3—15	72x20,	50	4½"	flues		160
B. 4—	72x20,	60	4"	flues		160
B. 30—	72x20,	72	4"	tubes		160
B. 39— 2	72x18,	68	4"	tubes		150
B. 16—	72x16,	60	4"	tubes		125
B. 34—	72x16,	64	4"	tubes		125
B. 60—	72x16,	64	4"	tubes		125
B. 77—	66x16,	54	4"	tubes		100
B. 23—	60x18,	49	4"	tubes		90
B. 49—	60x18,	48	4"	tubes		90
B. 133—	60x17,	54	4"	tubes		90
B. 15—	60x16,	48	4"	tubes		85
B. 26—	60x16,	48	4"	tubes		85
B. 54—	60x16,	46	4"	tubes		85
B. 62—	60x16,	44	4"	tubes		85
B. 66—	60x16,	46	4"	tubes		85
B. 71—	60x16,	46	4"	tubes		85
B. 119—	60x16,	52	4"	tubes		85
B. 120—	60x16,	52	4"	tubes		85
B. 2—	60x14,	48	4"	tubes		70
B. 29—	54x16,	39	4"	tubes		70
B. 40—	54x16,	40	4"	tubes		70
B. 64—	54x16,	39	4"	tubes		70
B. 61—	54x16,	39	4"	tubes		70
B. 85—	54x14,	36	4"	tubes		65
B. 55—	48x16,	33	3½"	tubes		60
B. 70—	48x16,	34	3½"	tubes		60
B. 81—	48x12,	42	3"	tubes		40
B. 82—	48x12,	42	3"	tubes		40
B. 129—	42x14,	32	3½"	tubes		40
B. 130—	42x14,	38	3"	tubes		40
B. 132—	42x14,	34	3½"	tubes		40
B. 61—	42x12,	26	3½"	tubes		35
B. 114—	42x10,	45	3"	tubes		30
B. 115—	42x10,	45	3"	tubes		30
B. 118—	36x12,	32	3"	tubes		25
B. 117—	36x10,	30	3"	tubes		20
B. 93—	30x 8,	20	3"	tubes		15

LOW PRESSURE HEATING FIRE BOILERS.

B. 43—48x12, 34 3½" tubes, open bottom, low pressure.

B. 44—48x12, 34 3½" tubes, open bottom, low pressure.

B. 52—48x12, 42 3½" tubes, open bottom, low pressure.

B. 84—48x12, 46 3" tubes, open bottom, low pressure.

B. 100—44x10, 48 3" tubes, open bottom, low pressure.

B. 113—42x10, 53 2½" tubes, open bottom, low pressure.

B. 94—42x10, 43 2½" tubes, open bottom, low pressure.

B. 127—42x 8, 53 2½" tubes, open bottom, low pressure.

B. 48—36x12, 38 3" tubes, open bottom, low pressure.

B. 50—33x14, 35 2½" tubes, open bottom, low pressure.

B 101—26x 8, 34 2" tubes, open bottom, low pressure.

MISCELLANEOUS MACHINERY LIST---Continued

HIGH PRESSURE VERTICAL BOILERS.

		Approx. H. P.
B. 41	84"x20', 280 2½" tubes	200
B. 46	60 x12, 200 2" tubes	80
B. 45	60 x 8', 250 2¼" tubes	60
B. 91	42 x 7, 100 2½" submerged flues	20
B. 99	36 x 6, 100 2" tubes	15
B. 109	30 x 7, 65 2" tubes	12
B. 105	30 x 6, 36 2" tubes	8
B. 104	30 x 5, 21 4" tubes	6
B. 67	36 x54, 100 2" submerged tubes	12

LOW PRESSURE HORIZONTAL TUBULAR BOILERS.

B. 200— 3 72x16' Tubular Boilers, containing 60 4" tubes.
B. 201—4 66x18' Tubular Boilers, containing 54 4" tubes.
B. 202—7 60x18' Tubular Boilers, containing 49 4" tubes.
B. 203—3 60x16' Tubular Boilers, containing 48 4" tubes.
B. 204—2 60x16' Tubular Boilers, containing 44 4" tubes.
B. 205—2 60x16' Tubular Boilers, containing 46 4" tubes.
B. 206—1 60x14' Tubular Boiler, containing 48 4" tubes.
B. 207—4 54x16' Tubular Boilers, containing 40 4" tubes.
B. 208—1 54x16' Tubular Boiler, containing 39 4" tubes.
B. 209—4 48x16 Tubular Boilers, containing 33 3½" tubes.
B. 210—2 42x14' Tubular Boilers, containing 38 3" tubes.
B. 211—1 42x14' Tubular Boiler, containing 34 3½" tubes.
B. 212—2 42x8 Tubular Boilers, containing 40 2½" tubes.
B. 213—1 36x8 Tubular Boiler, containing 30 3" tubes.

LOCOMOTIVE FIRE BOX BOILERS.

		Approx. H. P.
B. 53	48x16', 175 2" tubes	60
B. 57	48x10', 175 2" tubes	40

FEED WATER HEATERS.

B. 66—1500 H. P. Berryman, brass tubes.
B. 32—1000 H. P. Berryman, 200 2½" brass tubes.
B. 75—1000 H. P. Baragwanath, brass tubes.
B. 76—1000 H. P. Baragwanath, brass tubes.
B. 80—1000 H. P. Baragwanath, brass tubes.
B. 116— 250 H. P. Cookson, open heater.
B. 122— 200 H. P. Reynolds, iron tubes.
B. 90— 100 H. P. Berryman, brass tubes.
B. 106— 70 H. P. Berryman, brass tubes.
B. 107— 60 H. P. Baragwanath, brass tubes.
B. 108— 60 H. P. no name, brass tubes.
B. 111— 60 H. P. Baragwanath, brass tubes.
B. 124— 60 H. P. Berryman, brass tubes.
B. 110— 50 H. P. no name, brass tubes.
B. 112— 50 H. P. Baragwanath, brass tubes.
B. 1— 80 H. P. Berryman, brass tube.
H. 2— 150 H. P. Baragwanath, horizontal h't'r.

IRON WORKING MACHINERY.

We are, at all times, receiving new consignments of Iron Working Machinery, of all descriptions, and if you do not find anything in this list given below suitable for your purpose we solicit your inquiries on same.

M. O. 162—7 Jameson & Carroll 9x25 (New) Foot Power Lathes.
M. O. 200—1 Barnes 10x25 Foot Power Lathe.
M. O. 49—1 Iron Planer, New Haven Co., 22x20x58", friction driven, with countershaft.
M. O. 70—2 Hanson & Van Winkel Emery Grinders, No. 7.
M. O. 115—1 New Haven Iron Planer, bed 3'8", bet. ways 18", width 15", height 20", under rail 17", countershaft.
M. O. 132—1 16" Cincinnati Geared Shaper and Vise.
M. O. 134—1 Drill Press, Barnes 20", back geared.
M. O. 135—1 Emery Grinder and Polisher.
M. O. 146—1 Iron Shaper, 24", no name, good condition.
M. O. 152—1 Foot Power Lathe (New), 9x25, L. F. Grammes & Son.
M. O. 153—1 Pedestal Emery Grinder, will carry 1" face by 10" dia. wheel.
M. O. 189—1 Detroit Emery, Emery Grinder, with 3-step cone pulley, 6x8x10, 5" face.
1 Hughes & Phillips 58x58x12 Iron Planer.
1 Air Hoist (4-ton).

WOOD WORKING MACHINERY.

We are, at all times, receiving new consignments of Wood Working Machinery, of all descriptions, and if you do not find anything in this list given below suitable for your purpose we solicit your inquiries on same.

M. O. 154—1 Swing and Cut-off Saw, wood frame.
M. O. 155—1 Foot Power Mortiser, Barnes.
M. O. 156—1 Foot Power Shaper, single spindle.
M. O. 157—1 Barnes Foot Power Gig Saw.
M. O. 158—1 Excelsior 32" Band Saw.
M. O. 159—1 Jointer, 8".
M. O. 161—1 Saw Mill, 20,000 cap., without head blocks or brakes.
M. O. 186—1 Berlin Sander, 30" double roll, power driven.
M. O. 187—1 Scroll Saw.
M. O. 190—1 Planer and Matcher, 24x6, Preble Mfg. Co.
M. O. 192—1 No. 6 Fox Universal Trimmer, W.P. Fox
M. O. 201—1 Richmond Saw Mill, 20,000 cap., practically new, complete.

ROCK AND PROSPECTING DRILLS.

We are constantly receiving in stock different kinds and sizes of Rock Drills, and if you find nothing in this list given below suitable for your work we solicit your inquiry on same.

M. O. 23—6 Ingersoll Drills, 3⅛".
148 to
M. O. 151—4 Rock Drills, Ingersoll, 3¼".
1 Bullock Champion Diamond Prospecting Core Drill. Screw feed and fittings.

MISCELLANEOUS MACHINERY LIST---Continued

STEAM AND BELT DRIVEN AIR COMPRESSORS.

We are receiving in stock, all the time, different kinds and sizes of Belt and Steam Driven Air Compressors, and should you not find listed below such sizes as you are in need of we solicit your inquiry on same.

M. O. 144—1 Crane Co. 5x7 Compressor, Type Locomotive, No. 200.
M. O. 36—1 Marsh Air Compressor, 5½x6x6, steam driven.
M. O. 83—1 Pedrick & Ayer Air Compressor, capacity 75 feet.
M. O. 103—1 Rand Drill, Duplex Steam, Low Duty, Water Jacketed, 8½x12, air 12x12, dia. of fly wheel 60"x5", 7½" thick.
M. O. 204—1 Duplex Steam Driven, Low Duty Air Compressor, steam 8, water 8, stroke 7.
M. O. 205—1 Wilson & Snyder Steam Driven Air Comp., steam 10, 10 cyl., 10 air cyl., 12 stroke, low duty.
M. O. 206—1 Wilson & Snyder Low Duty Air Comp., steam driven, steam cyl. 6", air cyl. 10", stroke 12".
M. O. 207—1 Air Compressor, 4" steam, 4" water, 8" stroke.
B. 300—1 12x12 and 12x18, Class F Blaisdell 524' Capacity Air Compressor.
B. 301—1 8x14 and 9x8, Class F Blaisdell 210' Capacity Air Compressor.
B. 302—1 16 and 10x10 Blake Compound, Belt Driven, 344' Air Compressor.
B. 303—1 9x10x9 Clayton Duplex, 24' Capacity Air Compressor.
B. 304—1 8x6 Blaisdell Class AA, Belt Driven, 51' Air Compressor.
B. 305—1 12x14, Type 11, Rand 320' Capacity Belt Driven Compressor.
B. 306—1 10x10x13 Clayton Duplex, 330' Capacity Air Compressor.

WORM GEAR BELT DRIVEN FREIGHT ELEVATORS.

We have quite a number of these second-hand machines in stock at the present time, and are constantly adding to our list, and should you not find one listed suitable for your requirements, we solicit your inquiry on same.

M. O. 101—1 J. W. Reedy Elev. Gear, Belt Driven, 3,000 to 4,000.
M. O. 102—1 Eaton & Prince Elev., Worm Gear Belt Driven.
M. O. 117—1 Worm Gear Belt Driven Elev., 3,000 to 4,000.
M. O. 118—Worm Gear Belt Driven Elev., Cap. 3,000 to 4,000.
M. O. 137—1 Mitchell Elev., Worm Gear Belt Driven, 3,000 lbs.
M. O. 145—1 Worm Gear Belt Driven Elevator, Cap. 3,000 lbs.
M. O. 147—1 Worm Gear Belt Driven Elevator, 4,000 Cap.
M. O. 194—1 Worm Gear Elev., Belt Drive, 2,000 lbs., Eaton & Prince.
M. O. 195—1 Worm Gear Belt Driven Elev., 2,000 lbs.
M. O. 196—1 Worm Gear Belt Driven Elev., 2,000 lbs.
M. O. 197—1 Reedy Elec. Elev., 2,000 lbs.
M. O. 199—Worm Gear Belt Driven Elev., 3,000 lbs.

MISCELLANEOUS ARTICLES.

We are receiving at all times such articles as would naturally come under miscellaneous items, and if you are in the market for anything in the line of machinery of any description we solicit your inquiry on same.

M. O. 124—1 Buckwheat Machine.
1 Roller Mill, W. D. Gray's patent, made by E. P. Allis & Co.
M. O. 75—1 Corn Grinder.
M. O. 125—1 Sullivan Mach. Feed Crusher.
M. O. 165—1 Webster Water Motor, 16", No. 3.
M. O. 173—1 Water Motor, Backus, 30".
M. O. 191—1 Western Elec. Motor, connected to fan 24", ¼ H. P., 110 V. D. C.
M. O. 200—1 New Dodge Coal Storage, Chainshell Bucket, 1½ yd. Cap.
M. O. 202—1 St. Louis Ice Machine, 15-ton.
M. O. 214—1 Westinghouse Eng., connected to Shear, for cutting cable.
1 9x14 Forney Type, Standard Gauge, Porter Locomotive.
1 Perrin Press, 36x36", 40 Plate Filter.

BLOWERS, FANS AND EXHAUSTERS

We are receiving in stock at different times different size Blowers, Fans and Exhausters, and if you do not find any suitable for your work listed below we solicit your inquiry on same.

M. O. 18—1 50" Window Ventilating Fan.
M. O. 33—1 54" Double Exhaust Fan, outlet 18", inlet 18".
M. O. 58—1 42" Exhaust Fan, outlet 16", inlet 16".
M. O. 68—2 No. 4 Sturtevant Blowers.
M. O. 73—1 No. 2 National Blower.
M. O. 80—1 No. 2 Buffalo Blower.
M. O. 81—1 No. 0 Sturtevant Blower.
M. O. 84—1 100" Sturtevant Fan.
M. O. 93—1 30" Sturtevant Blower.
M. O. 96—1 48" Window Ventilating Fan.
M. O. 136—1 27" Buffalo Forge Co. Blower.
M. O. 166—1 34" Double Fan, outlet 14", inlet 14".
M. O. 167—1 No. 3 Garden City Blower.
M. O. 168—2 32" Window Ventilating Fans.
M. O. 169—1 54" Double Exhauster, outlet 24", inlet 12".
M. O. 170—3 40" Window Ventilating Fans.
M. O. 171—1 24" Window Ventilating Fan.
M. O. 172—1 42" Gardner Blower, outlet 15", inlet 17".
M. O. 174—1 No. 6 Huyett & Smith Blower, outlet 10", inlet 18".
M. O. 175—1 No. 6 Sturtevant Blower.
M. O. 176—1 40" Sturtevant Blower.
M. O. 177—1 No. 4 Sturtevant Blower.
M. O. 178—1 No. 5 Sturtevant Blower.
M. O. 179—1 56" Buffalo Forge Co. Exhauster, outlet 18", inlet 18".
M. O. 180—1 48" Garden City Exhauster, outlet 15", inlet 15".
M. O. 181—1 56" Sturtevant Blower, outlet 18", inlet 18".
M. O. 182—1 60" Garden City Exhauster, outlet 24", inlet 24".
M. O. 183—1 60" Window Ventilating Fan.
M. O. 184—2 48" Sturtevant Blowers, outlet 12", inlet 16".
M. O. 185—1 48" Hess & Warming Blower, outlet 15", inlet 15".
M. O. 193—1 30" Garden City Exhauster, outlet 10", inlet 10".
M. O. 198—1 Garden City Positive Blower, suction 2", discharge 2".
M. 2—1 26" Window Ventilating Fan.
M. 1—1 36" Exeter Exhauster, outlet 10x12", inlet 15".

MISCELLANEOUS MACHINERY LIST---Continued

TANKS.

We give you a list of tanks which we have in stock, with as fair a description of these second-hand tanks as can be given. If, however, you desire further information on any of this material, kindly write and same shall have our prompt attention.

T- 1—1 48" diam. x 24' steel tank, shell ¼" heads 5-16", with two lugs on each side.

T- 2—1 36" diam. x 7' steel tank, shell 7-16", heads ½", butt strapped,, good for pressure of 100 to 125 lbs.

T- 4—3 60" diam. x 18' steel tank, thickness of shell 5-16", thickness of heads ½", with conical bottom.

T- 5—1 42" diam. x 5' steel tank, about ¼" shell, made of about 3-16" steel.

T- 8A—1 48" diam. x 12' steel tank, thickness of shell 5-16", thickness of heads ⅜", good for pressure of 100 lbs.

T- 9—1 open tank, 5' wide, 5' deep x 12' long.

T-13—1 30" diam. x 4' steel tank, ¼" shell, good for pressure of 75 to 100 lbs.

T-14—1 78" diam. x 21' steel tank, thickness of shell 5-16", thickness of heads ⅜", triple riveted, good for 100 lbs. pressure.

T-15—1 60" diam. x 16' butt strapped tank, made of about ½" steel, good for 150 lbs. pressure.

T-17—1 54" diam. x 6' steel tank, shell 5-16", heads ⅜", good for 100 lbs. pressure.

T-18—1 8' diam., 8' long steel tank, shell 5-16", heads ⅜", good for storage purpose only.

T-21—1 30" diam. x 6' steel tank, made of about 3-16" steel, good for 80 lbs. pressure.

T-24—1 48" diam. x 5' steel tank, shell 5-16", heads ⅜", good for 100 lbs. pressure.

T-26—1 open jacketed kettle, 36" deep, 4'6" wide x 7'6" long, good for steam pressure of 125 lbs.

T-27—1 steel tank, 36" diam., 8' long, made of about ¼" steel, good for 70 lbs. pressure.

T-28—1 36" diam. x 48" long steel tank, made of about ¼" steel.

T-29—1 48" diam. x 8' long steel tank with 12x15" manhole in one head, made of about 5-16" steel.

T-30—1 steel tank, 30" diam. x 10' long, with manhole 15x15 in center of tank, made of about ¼" steel.

T-31—1 steel tank, 30" diam. x 5' long, made of about ¼" steel.

T-32—1 steel tank, 36" diam. x 6'6" long, manhole 9¾x14" in one head, made of about ½" steel.

BOILER TUBES FOR RETUBING PURPOSES.

We offer below an opportunity to purchase the finest selected Boiler Tubes at prices that mean an enormous saving to you. These Tubes are carefully inspected before shipment and we guarantee them absolutely satisfactory for retubing boilers of any kind.

We cut these tubes to length. They have square ends, are straight, and are practically free from rust and scales.

Outside Diameter, inches.	Thickness, inches.	Weight, per foot.	Price, per foot.
2	.095	1.92	$0.06½
2¼	.095	2.17	.07½
2½	.109	2.73	.08½
2¾	.109	3.08	.09½
3	.109	3.25	.10
3¼	.120	4.03	.11
3½	.120	4.32	.12
3¾	.120	4.63	.13
4	.134	5.62	.14
4½	.134	6.17	.16

We ship them forward with the understanding that you will be satisfied with them, and give you the privilege, upon inspection, to return them to us, provided you do not find them up to our representations, and you can return them then at our expense for freight.

STEAM TRAPS AND SEPARATORS.

We have in stock at this time the following second-hand Steam Traps and Separators, upon which we can make some very low prices, and which we guarantee to be in first-class working order when shipments are made.

If any further information is desired on same, kindly write us and we will be pleased to give same by return mail.

5—No. 4 National Blower Steam Traps.

2—No. 3 National Blower Steam Traps.

1—6" Vertical High Pressure Steam Separator.

3—6" Vertical Bundy Steam Separators.

1—No. 1 National Steam Trap.

3—12" Bnndy Steam Separators.

7—14" Crane Pot Steam Traps.

1—No. 4 Cookson Steam Trap.

1—2½" Flanged Steam Separator.

1—Foster & Bishop Plug Trap, 2" feed, 1¼" discharge.

1—14" Crane Pot Trap.

1—10" Crane Pot Trap.

1—18" Nasan Pot Trap and By-pass.

7—16" Crane Pot Traps.

1—12" Albion Hight Pressure Pot Trap.

6—No. 6 Cookson Pot Traps.

1—No. 00 Daniels Steam Trap.

1—No. 2 Keeley Steam Trap.

1—1½" Connection Eureka Float Trap.

1—No. 3 Acme Pot Trap.

1—No. 3 Wright Emergency Trap.

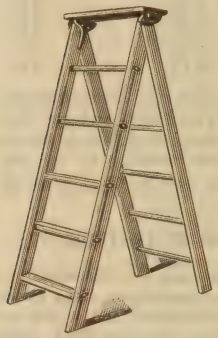
2— 8" Flanged Webster Oiled Extractors

3—18" Crane Pot Traps.

COMBINATION STEP LADDERS

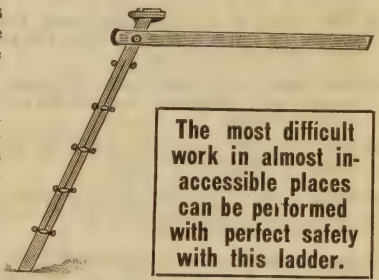
Bought at Manufacturers' Sale—Three Carloads

Painters, Carpenters and all others who use ladders and who wants to be absolutely sure of a thoroughly reliable ladder when working at elevated heights are urged to consider the merits of this high grade combination ladder with patent locking contrivances.



View of Combination Ladder used as Step-ladder.

The various illustrations below shows a few of the many uses of this high grade improved combination step-ladder and running ladder. The economy and general utility which these cuts signifies will appeal to you as worthy of careful consideration. These ladders are put together by skilled workman and nothing but the best material is used in their construction. The side rails are made from the best pine. hhe rounds are made of hickory and are set into the side rails with a shoulder. The steps are made of bass wood and set into grooves in the side rails. Each step except the top is reinforced by a bolt under it with a washer on each end. The use of these bolts and rounds make the ladder the **firmest** as well as the **most reliable** on the market. All castings are malleable and of strictly high grade character. This ladder can be extended to twice the length of an ordinary stepladder, and in addition thereto will lock automatically. It's unquestionably one of the greatest ladders of its kind on the market. Note that the prices quoted below are far below the actual value of the ladders. We are quoting these low prices simply to close out the lot on hand.



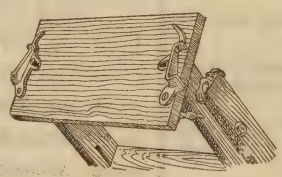
The most difficult work in almost inaccessible places can be performed with perfect safety with this ladder.

To transform this ladder into a trestle it requires but a moment's time. In this position the ladder is very handy for paper hangers or painters. It is frequently used as a trestle for work in a staircase.

Above illustration shows this Combination Ladder folded. As you will note, it requires but small space for storage. It can be easily carried from place to place.

We Offer Them at Less Than Cost

Every Carpenter, Painter and Person who use a stepladder of any kind shonld order one of these great bargains at once before the limited quantity on hand are sold out.



If you want a ladder that can be depended upon to be absolutely reliable and safe under all conditions, we urge that you order one of these high grade ladders at once.

We give a top view of this ladder, so as to bring out more clearly the castings with which all of these ladders are equipped. These castings work automatically and force the extending ladder to remain absolutely rigid and firm at any elevation to which it is extended. The legs of the ladder are caught and held in place by this automatic device,

RUNNING LADDER

Length as Ladder	Length as Extension Ladder	Price, each
4 ft.	7 ft.	$0.80
5 ft.	9 ft.	1.00
6 ft'	11 ft.	1.20
7 ft.	13 ft.	1.40
8 ft.	15 ft.	1.60

The above cut shows this ladder in an extended position. This is one of the best features of this ladder. This illustration shows how it is possible for this ladder to answer the purpose of two ladders. The lock is automatic,and the heavier the weight upon it the tighter it will hold, making it absolutely impossible for accidents to occur. We urge that you order one of these ladders from us today.

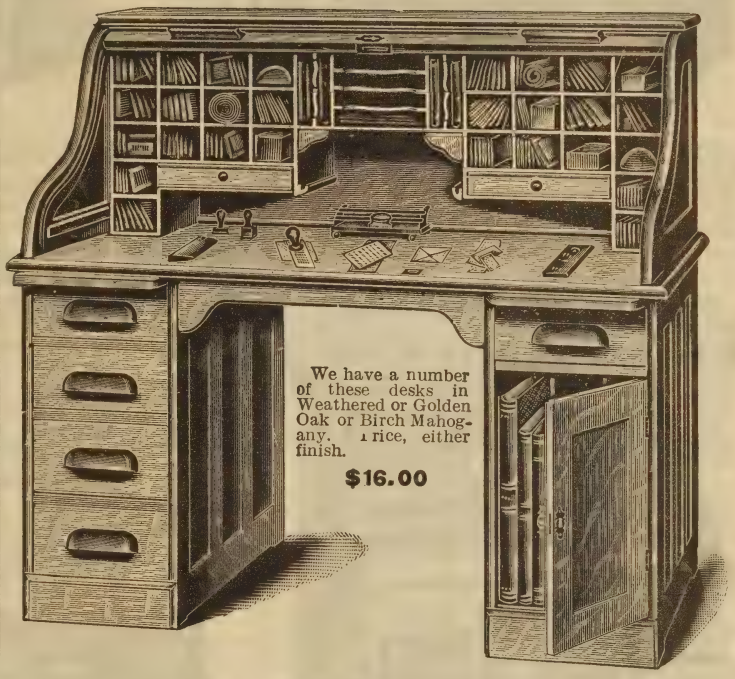
New Roll Top Office Desks

FROM RECENT MANUFACTURERS' SALE

BEST VALUE ever offered at the price. The Desks are Absolutely Brand New and of high-grade manufacture throughout. : : :

These Desks are Frequently Sold at **$30.00** Our Special Price **$16.00**

Finished in Oak and Birch Mahogany



We have a number of these desks in Weathered or Golden Oak or Birch Mahogany. Price, either finish.

$16.00

Weight crated for shipment, 250 pounds.

Lot No. 250. 237 High Grade Roll Top Desks. Made of figured solid oak, finished golden; a strictly high grade business man's desk at a wonderfully low price, positively cannot be duplicated anywhere. These desks measure 54 inches in length, about 52 inches in height and 30 inches from front to back.

Particular attention is called to the fact that the illustration does not show the practical interior arrangement of these desks. Although, not shown in the illustration the right pedestal contains 2 book stalls, each measuring 19 inches in height, 4 inches in width and 14 inches in depth, in addition to 4 private pigeon holes of spacious dimensions. Please note the interior arrangement of this desk consists of 28 pigeon holes, each 4 inches wide, 3½ inches high and 8½ inches in depth; also 2 blotter racks at sides and back and 2 pencil racks; 4 partitions for letter heads and stationery, and 2 large envelope receptacles. The drawers in the pedestal each measure 11 inches in width, 23 inches in depth and 3½ inches in height. The bottom drawer of left-hand pedestal is 9 inches deep inside, and other measurements correspond to that given on other drawers. Desk is equipped with 2 arm slides. The paneling is all double strength stock with 5 ply veneering. The cabinet work must be seen to be appreciated. All drawers operate perfectly and the entire desk is guaranteed not to check, warp, shrink or loosen. Has best quality locks with keys; the base is fitted with a patent locking device that absolutely prevents the drawers being opened when desk top is locked.

You cannot get a better desk on the market at the price. We ship them burlapped and properly packed, and guarantee safe delivery. **Special prices on lots of 6 or more.**

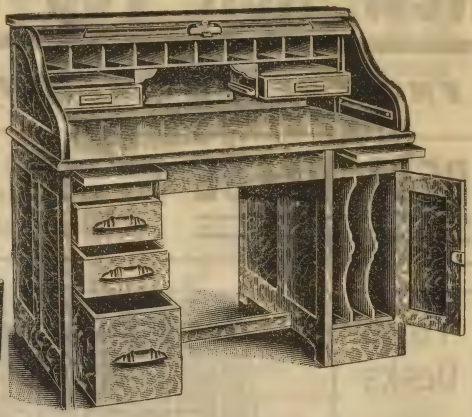
OUR GUARANTEE. If upon receipt of this desk you do not believe that you have your money's worth, we give you the authority to return same to us at our freight expense and we will refund your money. While they last—

Price, each. **$16.00**

Lot No. 250½. Consists of 46 Roll Top Desks; very similar in design in above illustration except that this Desk has different interior. Has less pigeon holes, but 4 are larger and it has 4 large book stalls (not shown in cut). Made of solid oak, finished golden. We recommend this Desk as highly desirable in every respect and an ideal Business Man's Desk worth far more than what we ask.

Special Price, to close out lot at once **$17.50**

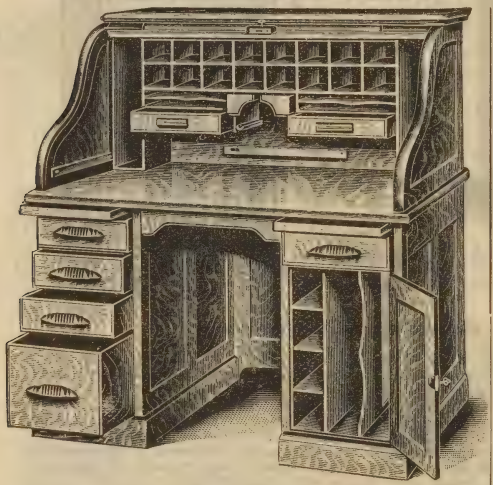
HIGH GRADE ROLL TOP DESKS!



No. 1700. This Roll Top Desk is made of selected figured oak or birch mahogany; has flexible dust proof curtain; solid writing bed, with rounded corners; 5 drawers; extension slides and closed back; all styles are chamfered and drawer fronts raised, panels are made up out of built-up stock; pedestal drawers lock automatically with the lowering of curtain, mounted on high grade casters, center drawer has separate key. We have 20 of the above desks in the following size:

No. 1700. Size 42 inches long, 30 inches deep, 45 inches high. Weight 175 lbs. Price.....**$12.50**
Price Mission Design.....**13.00**

A Wonderful Desk Value!



Lot No. X520. 80 roll top desks exactly like above illustration. Made of highly figured solid oak, finished golden. We also have a few in weathered oakand mahogany finish. Length 54 inches, height 52 inches and depth 30 inches. It is unquestionably one of the greatest bargains ever offered. Cabinet work is of the highest character and must not be confused what you generally secure in a low priced desk. Desk is equipped with two arm slides. Paneling is of double strength stock ; five ply veneering. The drawers operate without friction. The desk is guaranteed not to chip, warp or crack. Has a multitude of convenient appliances, too numerous to describe. This includes pencil drawers, blotter racks, etc. This is an ideal business man's desk and is worth far more than the extremely low price we list. Weight, about 230 lbs. Price, each..**$18.00**

Lot No. 3000. 100 high grade roll top desks like illustration. Flexible dust proof curtain. Solid top with round corners. Three spacious drawers, roomy cupboard divided into three book stalls. Heavy extension slides below writing bed. Panels of built up stock. Open back. Drawers lock and unlock automatically when curtain is closed or opened. Mounted on heavy casters. These desks are made of solid oak, highly figured, and can be supplied in golden, antique or weathered oak finish. We also have a few in mahogany finish. This desk weighs approximately 225 lbs, Below we classify the different sizes in which these desks come. Order by lot number according to size desired.

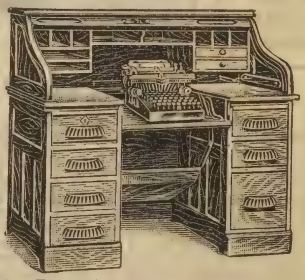
Lot No. 60. 48 inches in length, 30 inches in depth and 45 inches high. Price, any finish described above.....**$12.75**

Lot No. 60X. Same as No. 60 with drawers it both pedestals.
Price.....**$13.50**

Lot No. 65. 30 roll top desk, length 54 ins., depth 30 ins. and height 45 ins, Otherwise same as No. 60. Price, each.....**$14.75**

Lot No. 65X. Length 54 ins., depth 30 ins. and height 45 ins. Drawers in both pedestals. Otherwise same as No. 65. Price.....**$15.50**

Lot No. 70. 60 ins. in length, 45 ins. in height. Otherwise as No. 60. Price...**$16.75**

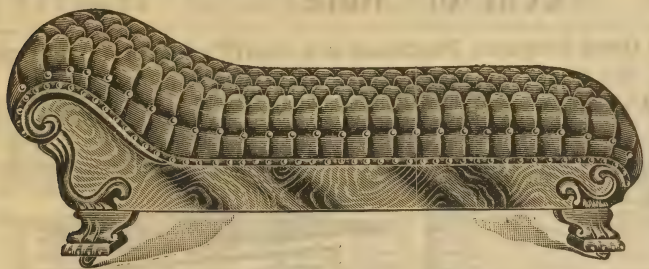


No. 1831. This roll top typewriter desk is made of finely selected oak, rubbed and polished finish, best drop mechanism, carved wood drawer pulls. Has a well grouped pigeon hole interior, paneled all around. A perfect typewriter desk combined with a complete roll top; automatic device for raising and lowering machine; mounted on ball bearing casters. We have 75 of them in the following sizes.

No. 1831, size, 50 inches long, 30 inches deep, 46 inches high. Weight 290 lbs.
Price.....**$26.00**

No. 1829, size 37½ inches long, 30 inches deep, 46 inches high. Price.....**$21.50**
Same desk as above, except that it is single pedestal with one row of drawers.

Magnificent Couch Values!



At Prices Positively Beyond Duplication. High Grade Couches of the Finest Manufacture at Wrecking Prices.

Lot No. 916. A Special Bargain Lot of High Grade Couches in a Variety of Upholsterings. The frames of all couches in this lot are made of Quarter-Sawed Oak finished Golden. The finish is hand rubbed and polished to a high luster (not the ordinary gloss finish). The design is very rich in appearance, being massive and elegant. It is constructed in a manner that insures a lifetime service. It is fitted with 8 rows of tufts securely fastened with patent non-pull-out prong buttons. Has an indestructible steel construction insuring elasticity and durability. Measures 78 inches in length and 30 inches in width. The couches in this lot can be had only in the upholsterings quoted below. Weight 100 lbs.

Price, Figured Velour..... $ 9.95
Price, Block Velour..... 10.25
Price, Boston Leather..... 14.00
Price, Genuine Leather..... 22.50

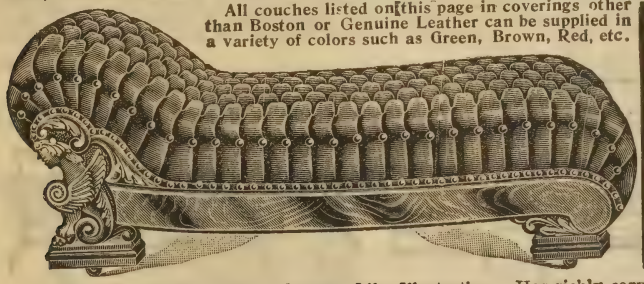
Absolute Satisfaction Guaranteed or Money Refunded.

We have a number of the couches shown on this page in other coverings than quoted. Write us for prices stating your requirements.

Lot No. 978. 40 Massive Couches Like Illustration. Quarter-Sawed Oak frame finished Golden. Has indestructible steel construction; elaborately carved and shaped. Has massive carved claw feet. Top has 8 rows of hand-made tufts securely fastened to inner construction with patent non-pull-out prong buttons. Measures 78 inches in length and 30 inches in width. Can only be supplied in Figured Velour, Block Velour, Boston Leather and Genuine Leather. Shipping weight, about 110 lbs.

Price, Figured Velour..... $13.25
Price, Block Velour..... 13.50
Price, Boston Leather..... 16.50
Price, Genuine Leather..... 25.75

All couches listed on this page in coverings other than Boston or Genuine Leather can be supplied in a variety of colors such as Green, Brown, Red, etc.



These COUCHES

Must not be compared with the "Ordinary" lines sold throughout the country at Exorbitant prices.

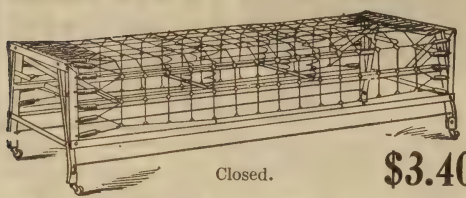
Lot No. 940. 27 Magnificent Couches Like Illustration. Has richly carved Quarter-Sawed Oak frame hand rubbed and polished to a high luster and finished Golden. Particular attention is called to the Massiv figures carved on each side of head end. These are cut extra deep and show up clear and distinct. Has indestructible steel construction, best grade filling and comes in a variety of the finest coverings. Has 8 rows of hand-made tufts. Measures 78 inches in length and 30 inches in width. Shipping weight 125 lbs. As we have but 5 of these Couches upholstered in Genuine Leather, we urge that those desirous of securing this couch in this particular covering to place their order at once. The demand for this Couch will prove exceptionally heavy and we don't expect them to remain in stock very long.

Price, Figured Velour..... $14.75
Price, Block Velour..... 14.95
Price, Boston Leather..... 18.50
Price, Genuine Leather..... 26.35

All Furniture, Carpets and Rugs listed herein are of the finest quality and absolutely Guaranteed Brand New and Perfect in Every Respect.

Buy a Sanitary Couch Now and Save 40 Per Cent or More.

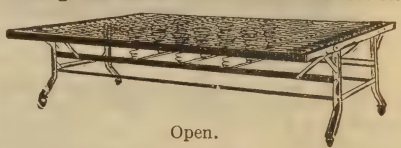
Below We Feature 3 Great Bargains, Purchased at a Sheriff's Sale of a Bankrupt Manufacturer. We Guarantee the Goods to be of the Finest Quality and Worth Fully 40 Per Cent More than We Ask.



Closed.

$3.40

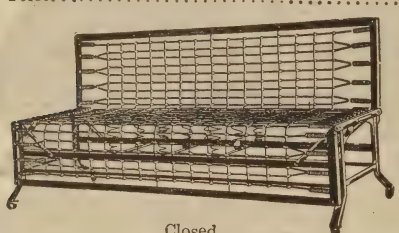
A full assortment of pads and mattresses for these goods can be found in mattress section



Open.

S. 22. This sanitary steel couch bed is one of the most serviceable articles ever created. By virtue of its utility it may be converted into a couch during the day, and into a full sized bed at night. In our mattress section we feature matresses to use on same. The frame is made of best quality of steel angle bars, and has a positive and practical locking device that is exceedingly simple in operation. The Fabric is made of cold drawn steel wire, is pliable and positively will not sag. The Fabric is connected to angle frame by an abundant quantity of oil tempered helicals, and has a center support consisting of Carbonized Oil tempered spiral springs which are connected with steel cross bars, and by its peculiar construction distributes the strain evenly throughout the frame, and absolutely prevents sagging even when used by the heaviest persons. When closed and used as a couch, seat measures 23 inches in width, while height from top to floor is 18½ inches. When open as a bed the width measures 50 inches, and length 74 inches. Weight, 63 pounds.

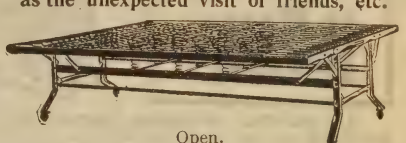
Price.....$3.40



Closed.

$3.95

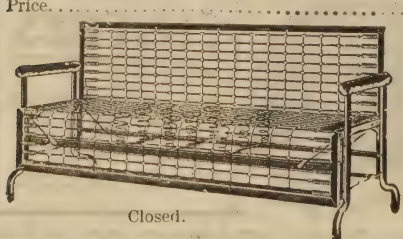
With one or two of these couches you are always prepared for any emergency, such as the unexpected visit of friends, etc.



Open.

S. 23. An extraordinarily low priced folding Davenport made with all steel angle bar frame very solidly bolted construction. Fabric is of best quality steel and is secured to frame by two durable sets of oil tempered helical springs and supported in center by guaranteed oil tempered spiral springs which absolutely prevents fabric from sagging, no matter how heavy a person uses it. A practical feature is the simple locking device enabling the transforming from a davenport to a bed measuring 74 inches in length and 50 inches in width. When used as a davenport height of back is 17 inches,, width of seat is 21 inches. The weight is 65 pounds. This is an exceptionally convenient article to have as it always finds you prepared for any emergency, such as an unexpected visit of company, etc. Our purchase of a large quantity of these articles at an exceedingly low price enables us to furnish this great value to you at a price far below duplication elsewhere.

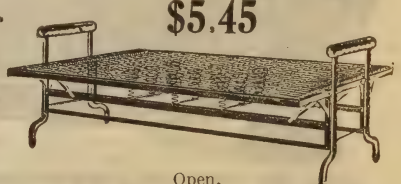
Price.....$3.95



Closed.

Indispensable to every home Convenient and practical

$5.45



Open.

S. 20. We offer in this pattern a very desirable sanitary steel davenport comprising features found only in the most expensive grades on the market. The frame is made of best quality cold steel angle bars rigidly secured, and very nicely wrought in a most pleasing pattern. Best quality of casters are furnished. The fine grade fabric is securely connected to frame with steel helicals which enables strain to be evenly distributed about frame; it also has a set of oil tempered Spiral Springs which absolutely prevents sagging. A very desirable feature is the wood arms which can be furnished in either mahogany or golden oak finish. When set up as a Davenport the height of back is 17 inches, and the width of seat 21 inches. When transformed into a bed the length measures 74 inches, and the width is 50 inches. As you can readily appreciate from these dimensions it makes a full size comfortable bed. If you are in need of a practical article of this kind do not overlook this opportunity of purchasing a high grade Davenport at an extremely low figure, far beyond that of any concern in the world. Weight 69 lbs.

Price.....$5.45

HIGH GRADE DINING TABLES

$6.45

AT WONDERFULLY LOW PRICES

Lot No. 444. At a Recent Manufacturer's Sale We Secured a Limited Number of These High Grade Dining Tables. They are made of Solid Oak, finished Golden. The figured top measures 42 inches in diameter and 6 feet in length when extended. Has an extra wide box rim extending around top, which greatly strengthens the construction of the table. Can be had with a square top only but with exactly the same legs as shown in illustration.

Retail Dealers who are in the market for dining room tables should carefully consider the great value we offer in this design. Place your order at once. Remember that this is too great a value to last very long. Fitted with best quality casters. Shipping weight about 100 lbs.

Price.....$6.45

WORTH $19.75. PRICE, $8.40

Five Legs, 6 Ft. Extension Table

Lot No. 508. The Tables We Offer Under This Classification are Made With Genuine Quarter-Sawed Oak Tops, Finished Golden. Although the designs included in this lot are in the majority very similar to illustration yet, a few may vary in minor details but this is of slight account as the detail varies so slight as to be almost unnoticeable. Has bulged effect legs in fluted design which are extra heavy and very massive. Top measures 42 inches square. Those who want an exceptional value in a high grade dining room table should not let this opportunity to secure so great a value go by. As our stock of these tables is limited all orders will be received subject to prior sale. **Price,** Golden Oak, 6 ft extension.

Price.....$8.40

$8.40

$17.50 6 FT. EXTENSION TABLE, $8.65

$8.65

We have a few of these tables with round tops.

A Perfectly Constructed Table of Massive Proportions.

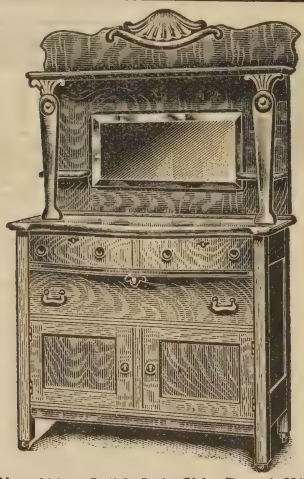
Lot No. 551. At a Recent Auction Sale We Secured a Number of High Grade 5 Leg Dining Room Tables of the Finest Workmanship Which We are Now Offering at an Unusually Low Price. We illustrate the square design, but we also can supply this table with a round top in the same size. Has bulged effect legs in the fluted design. Table is fitted with best quality casters. Below are prices for both round and square top.

Price, 42 inch top, 6 ft. extension.....$8.65
Price, 45 inch top, 6 ft. extension..... 9.65

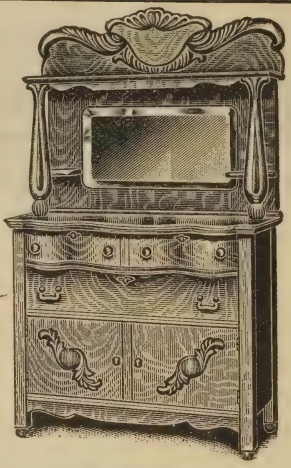
Special Prices on Lots of 6 or More. Write for Quotations.

We guarantee absolute satisfaction or refund your money. We can save you fully 60 per cent on Parlor Furniture. Write for our Special Bargain List.

High Grade Sideboards!



All SIDEBOARDS on This Page will be shipped direct from point of purchase in Kentucky. SEE PAGE 4.



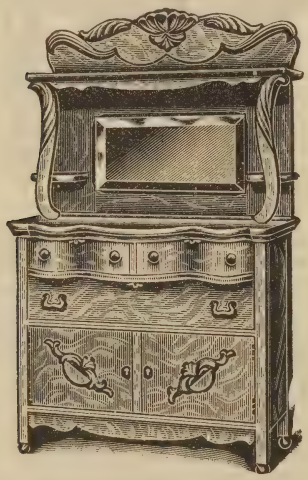
Lot No. 600. Solid Oak Side Board With Two Swell Effect Quarter-Sawed Oak Top Drawers, Finished in a Rich Shade of Golden. Top measures 42 by 21 inches. Has extra heavy French Beveled Plated Mirror measuring 24 by 14 inches; large linen drawer and spacious linen compartments. One drawer plush lined for silverware. Richly carved. A strictly high grade piece of dining room furniture at less than cost.

Price.....Weight about 150 pounds.....$10.50

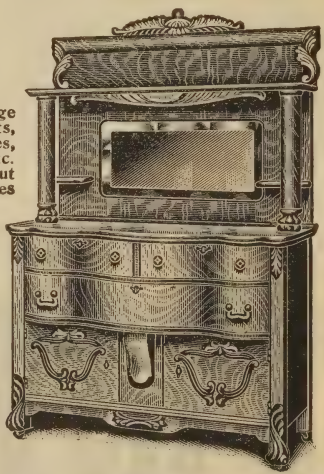
Lot No. 620. The Sideboards Listed Under This Lot Number are Made With a Full Quartered Oak Front. Top measures 42 by 21 inches. Has extra thick French Beveled Plate mirror measuring 26 by 16 inches. One of the upper Serpentine effect drawers is plush lined for silverware. A very attractive piece of dining room furniture.

Price.....Weight about 175 lbs.....$13.75

If you don't see just what you need listed in this Catalog write us. We might have just what you may want.



We have a large stock of Buffets, Serving Tables, Cellaretts, Etc. to be closed out at very low prices



Lot No. 610. 24 High Grade Sideboards. Solid Oak, finished Golden. Base measures 42 by 21 inches. Has extra heavy French Beveled Plate Mirror measuring 24 by 14 inches. Both top drawers are in the double swell Serpentine effect and are made with Quartered Oak front. Has spacious linen compartments. One of the upper drawers is plush lined for silverware.

Price.....$11.25

Lot No. 640. 40 Elegant Sideboards Like Cut. Made of Quarter Sawed Oak finished in a rich shade of Golden. Top measures 48 by 23 inches. Has extra heavy French Beveled Plate mirror measuring 28 by 16 inches; has double swell Serpentine front. One drawer is plush lined for silverware; elaborately carved. Has solid cast brass trimmings and is fitted with best quality casters.

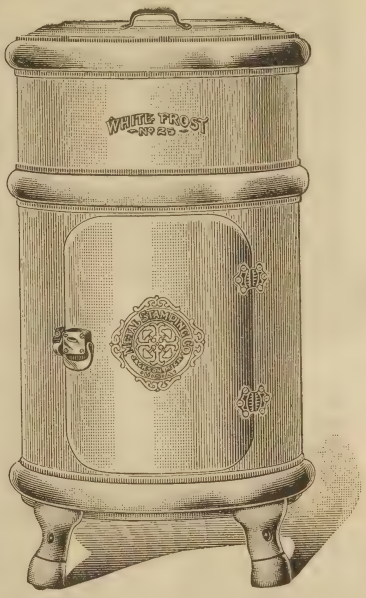
Price.....$13.50

Genuine White Frost Refrigerators, $17.50

Brand New; Wonderful Ice Savers; Sanitary and Spacious. Only a Few Left, Send Us Your Order at Once.

FROM MANUFACTURERS' SALE!

Unquestionably the greatest refrigerator value ever offered. Guaranteed perfect. Will pay for its cost many times over in its economic consumption of ice.



See dimensions of various sizes below.

Money Refunded if not exactly as described. The Greatest Refrig. erator Value ever Offered.

Made entirely of heavy galvanized sheet steel with nickel trimmings. It is a metallic refrigerator without a single stick of wood even as large as a tooth pick in its construction. Positively will not warp, shrink, swell or decay. Being cylindrical in form, has no nasty corners to clean out. Has adjustable revolving shelves. Guaranteed to maintain a low temperature and absolutely dry atmosphere. Absolutely the most practical of its kind made.

Owing to scientific circulation, as well as thorough insulation, they are great savers of ice, therefore the most economical to buy.

NOTE: These refrigerators are provided with 1 1-4 in chair space between walls; are packed with genuine Maltha and asbestos, the combination of which, while more expensive than the ordinary material used for like purpose, is much more efficient and the most practical to be found.

The fact that retail dealers are purchasing these from us at our extraordinary low prices is proof conclusive of the lowness of our price and the quality of these articles. To clearly demonstrate our ability to undersell all on these articles, we urge you to price this same article at any retail dealer. This is the most convincing argument we can put forth as to the wonderful value we offer.

No.	Height.	Diameter.	Ice Capacity.	Shipping Weight.	Price.
121	43 inches.	21 inches.	50 lbs.	125 lbs.	$17.50
123	45 "	23 "	75 "	160 "	20.00
125	47 "	25 "	100 "	200 "	22.50

No. 225 is the same as No. 125 but has a stationary galvanized iron six quart water cooler with faucet. Price..... 26.00

High Grade Steel Ranges at Sacrifice Prices

At $16.90 we offer "THE DIADEM" Steel Range, unquestionably the most wonderful value ever offered.

FAULTLESS IN DESIGN; PERFECT IN WORKMANSHIP MATCHLESS IN OPERATION. CERTAINTY THE MOST WONDERFUL BARGAIN EVER OFFERED. WE DISPLAYED THIS RANGE AT OUR CITY SALESROOM AND SOLD SEVERAL HUNDRED. THAT'S THE POPULARITY OF THIS MARVELOUS VALUE. ORDER ONE TO-DAY—NOW—MONEY BACK IF NOT SATISFACTORY.

If you want the finest Steel Range it is possible to build, regardless of price; if you want a range that is adapted to the use of hard or soft coal or wood, a range that will save its first cost many times over in its economic consumption of fuel, a range that is a perfect baker a range that has all the good points of every high grade steel range made with the defects of none, we would urge that you select this "Diadem" steel range with its equipment as illustrated. Remember we sell the **"Diadem"** strictly on its merits. We would be glad to accept your order for this range with the understanding if you do not find it satisfactory in every way and equal to the costliest range made. You can return it to us and we will refund your money.

DIADEM STEEL RANGE

For Hard or Soft Coal or Wood

$16.90

This High Grade Steel Range is made of the very finest quality Wellsville polished steel throughout. It has a heavy cast iron base and is elaborately trimmed with the finest quality of nickel. The following parts are superbly trimmed in nickel: Registers, top band, fire door, oven door, oven door panel and flue door. Some of these ranges come with steel reservoir and some with cast reservoir. Can also be had with high shelf instead of high closet if desired. Also few with back rail.

This Range is an excellent baker and will give the most heat for the least money. The weight of this range varies from 390 pounds for the 16-inch size with reservoir and high closet to 450 pounds for the 20-inch size. Below are given prices with and without reservoir, and with and without high closet. We advise, however, that all who purchase this range order it with high closet instead of high shelf.

Measurement and Prices of The Reservoir Range

Number of Range.	Size of Lids.	Size of Oven.	Floor to Main Top.	Main Top to Top of High Closet.	Length of Fire Box for Wood.	Main Top with Reservoir.	Size Pipe to Fit Collar.	Price with Reservoir and High Closet.	Price, Square, with High Closet.	Price, Reservoir with Back Rail.	Price with Back Rail without Reservoir
8–16	8	16x20x13½	31 in.	24 in.	25 in.	46x28	7	$23.50	$20.50	$19.90	$16.90
8–18	8	18x20x13½	31 in.	24 in.	25 in.	48x28	7	24.15	20.15	20.55	17.55
8–20	8	20x20x13½	31 in.	24 in.	25 in.	50x28	7	25.45	22.45	21.85	18.85
9–18	9	18x20x13½	31 in.	24 in.	25 in.	48x28	7	24.40	21.40	20.80	17.80
9–20	9	20x20x13½	31 in.	24 in.	25 in.	50x28	7	25.70	22.70	22.10	19.10

A COLOSSAL LINOLEUM PURCHASE

TAKE SPECIAL COGNIZANCE OF THIS OPPORTUNITY. WE BOUGHT THE ENTIRE STOCK OF A BANKRUPT IMPORTING CONCERN

It certainly was an event in the commercial world when the Chicago House Wrecking Co. purchased outright the entire stock of one of the largest linoleum importing concerns in the country situated in New York City.

When this concern went into bankruptcy they had on hand several thousand yards of the very finest and costliest grades of linoleum. As the creditors were forcing their demand, the main object of the receiver was to secure all the ready cash he could at once without delaying to get the higher prices they could easily secure by waiting until regular season when they could dispose of the stock directly wholesale at two or three times higher than at which we are now quoting it to you.

We moved the entire stock to our Chicago warehouse where we are now shipping large quantities of it throughout the country to our customers who prematurely heard of this purchase and wrote us to rush quantities of it to them.

The illustrations show the patterns exactly as they are, and the description fully describes the colors and other points of excellence about this unsurpassed floor covering. In addition you have our positive assurance that it is the greatest bargain ever offered; furthermore our guarantee of absolute satisfaction. The low prices quoted below are only made possible by our purchase of this bankrupt importing concern

Carefully read the description below and closely examine the engraving and note the distinctiveness and clear cut manner in which the brilliant shades show up. This you can determine by noting the contrasting shades in cut.

No. 544

LOT No. 544. As shown in accompanying illustration this linoleum is positively the prettiest and most carefully blended pattern of genuine German full inlaid linoleum that is manufactured. It is one of the costliest grades and is the most stylish in design that it is possible to produce. It comes in a jewel studded effect, and as it resembles very closely the parquet and mosaic work found in costly mansions, it is, as you will appreciate, a design that will fill the requirements of the most exacting taste. It can be furnished in a variety of colorings with red as the predominating color and contrasted by beautiful tints of ivory and a profusion of stone and myrtle green shades running throughout the figure. Heavy jet black markings are interspersed, so as to show up the different markings clearly and distinctly. Every detail is absolutely perfect from every point of view, and this linoleum is an article that can be depended upon to give long service and be just as bright and durable ten years from now as at the time you purchase it. For hard wear it cannot be surpassed, and were you to purchase this linoleum elsewhere you unquestionably would pay $3.00 to $4.00 per yard for it. As far as usage is concerned, that it will wear through to the floor without losing any of its beauty of lustre. Opportunities to purchase this linoleum at the extremely low figure we quote is seldom presented to you. Write us for a sample which we will be glad to send by return mail. In ordering, be sure to mention whether you desire the predominating colors to be maroon, dark red, green or stone color. Comes two yards wide. Price, per square yard..... **59**

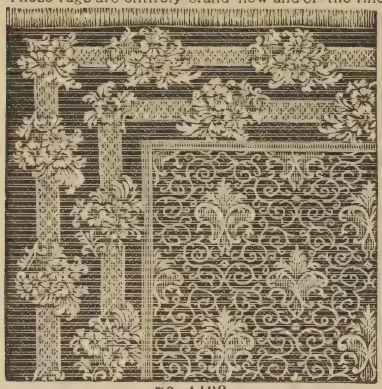
LOT No. 545. We particularly call the attention of all our customers to this especially high-grade wear-resisting genuine German full inlaid linoleum. The colors are artistically and perfectly blended, so as to show up to the best possible advantage. We urge all our customers who contemplate the purchase of linoleum and who want to secure the best grade and the most costly linoleum obtainable to write us for a sample which we will be glad to send by return mail. It is extra heavy and practically indestructible. You can subject it to the very hardest usage without any visible effect whatever on it. The wear-resisting quality is such a prominent feature that this linoleum will wear clear through to the floor without losing any of its beauty or dulling its lustre in the least. As you will note, it comes in stucco pattern, which is a very popular design, and this, along with mosaic and other exclusive patterns. This pattern is a perfect imitation of genuine stucco tile floor work. It comes in dark maroon, back ground with beautiful jewel studded effects in black, green and ivory tints, which show up very clear and distinct, and has jet markings running throughout the pattern. It comes also in stone color, which is a very popular shade. Also have a limited quantity in green colored pattern. These colors are merely the predominating shades. Each pattern has contrasted shades of various hues, all of which harmonize perfectly and show up to the best possible advantage. Should you have any difficulty in figuring out the yardage for your room, be sure and write, giving diagram and dimensions and we will figure the correct yardage for you. Comes two yards wide. Price, per square yard **59**

No. 345

A Gigantic Purchase of Rugs Offered to You at Astonishing Low Prices

14 CAR LOADS OF ELEGANT ART SQUARES

Purchased at the Receiver's Sale of an Immense Eastern Carpet Concern. This lot which our buyers purchased comprises an extensive variety of art squares consisting of all the season's latest designs and prettiest colors. These rugs are entirely brand new and of the finest make. We secured them at an amazingly low price and as comparison of our prices will demonstrate no concern on earth can approach us in offering the value you receive in one of these rugs. The demand for these beautiful rugs at the prices we quote will rapidly exhaust our stock. Quick action in making your selection is advised. **Order now while they last.**

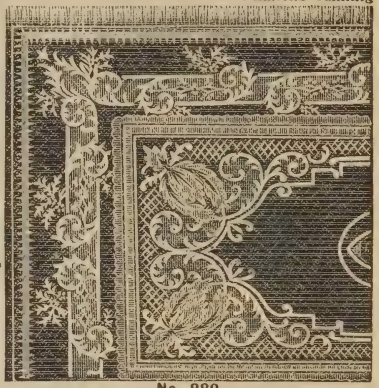


NO. 1100

The Handsomest Designs Ever Offered

Art squares have been universally recognized by every family as the most adaptable and serviceable rug ever placed on the market. Our fortunate purchase as stated above gives us an unprecedented opportunity to offer you the cream of this year's best mill's manufacture at astonishing low prices. Never before has any concern given their customers an apportunity like this one, therefore we take some pride in the fact that through the buying co-operation of our thousands of customers we are enabled to make gigantic purchases of this character and consequently place before you the most startling and amazing bargains ever offered. Every family can afford at the price we ask, to get one or more of these rugs and beautify their spare rooms. In making a selection from the following list you profit by another concern's loss.

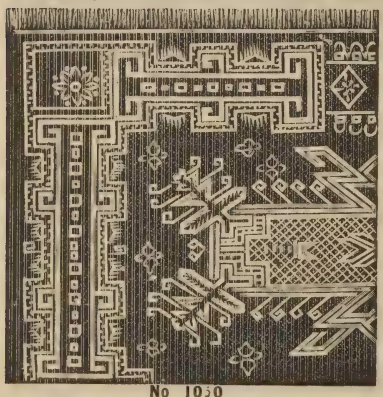
No. 984. In this lot we offer you the very finest of extra heavy ingrains or cotton granites, closely woven and made in one piece with deep fringe on both ends. A particular feature of these rugs is the extremely handsome patterns in which they come. Some have rich oriental medallion centers with beautiful detached borders while others are in renaissance effects, having pretty scroll and floral figures running throughout the rug. A particular point and one in which these rugs are unexcelled is the beautiful color combinations running throughout these rugs. You can see at a glance after examination that a great deal of care was used in the weaving of these rugs and in blending the colors, for the different color in which these rugs come, are each and every one absolutely perfect from every view, of perfect color harmony, appropriate selecting of hues and shading. The designs and colorings closely imitate the high price oriental rugs. A practical feature about this rug, is that same is reversible and consequently in purchasing one of these rugs you get the service of two for the price of one. We cannot guarantee to regularly have in stock any certain color but beyond all reason of doubt you can secure any rug of the colors herein mentioned provided your order is placed promptly before the heavy orders for same flow in. Retail dealers do not hesitate to take advantage of these bargains for they can appreciate the great values they are getting. Owing to the fact that our patterns are so extensive it is impossible to illustrate all the different designs. We, however, show three very attractive rugs which will give you but a very faint idea as to the richness of them. When you have laid them in your home you will be surprised to note how pretty they show up and the pleasing contrast in color effect.



No. 880

Any of These Designs Can be Furnished in the Following Color Combinations:

Dark Maroon, Red and Black background with pretty light green and white figures; Dark Green background with Orange and White as predominating colors; Dark Maroon background with deep black effects and Gold and White Figure; Dark Green background with Dark Red effects running throughout the weave; Dark Blue background with Orange and White Figure.



No 1050

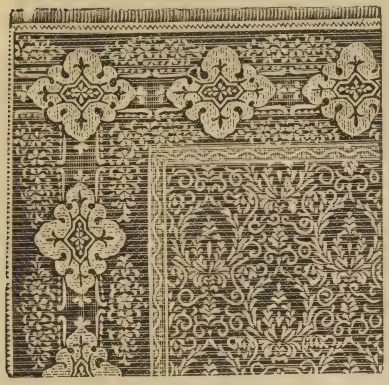
If you want a color different from any of these write us and perhaps we may have just what you want. Our stocks are constantly varying because of the fact that we are continually purchasing large quantities of goods from various Receivers' and Sheriffs' sales and what we have to-day might be gone to-morrow and we might have to-morrow what you can't find to-day. Never hesitate to write us freely as to what you are in the market for. We will give your inquiry prompt and personal attention. Always when desirable we would request that when ordering any of these rugs to be sure and give us first and second choice, that is, write us what color you prefer and also what other color you would want in case we were sold out of your first named choice. If however, you would want only a certain color tell us so and we will do our best to fill your order exactly or refund your money. These rugs are quoted so low that you can get a fairly good sized one at **$2.15**. While if the room is unusually large a 9 x 12 size will be sufficiently large enough. You profit immensely in buying now as the difference in price of what we charge and what you would pay regularly from any dealer will save fully from 30 to 60% surely a good reason to favor us with your order. As these rugs are exceptionally sanitary, because of their being reversible and the extreme ease with which they can be cleansed they are of course more free from dust and essentially more healthful to the home. We can offer these handsome rugs in sizes and prices as follows:

9 x 6 feet	$1.80	10½ x 9 feet	$3.15
9 x 7½ "	2.20	12 x 9 "	3.55
9 x 9 "	2.70		

Be sure and Order by Lot No. 984

Don't Overlook These Reversible Wool Art Squares

THE LOT ON THIS PAGE IS PART OF THE 14 SOLID CARLOAD SHIPMENT OF ART SQUARE RUGS WE BOUGHT UNDER THE AUCTIONEER'S HAMMER AT RECEIVER'S SALE.

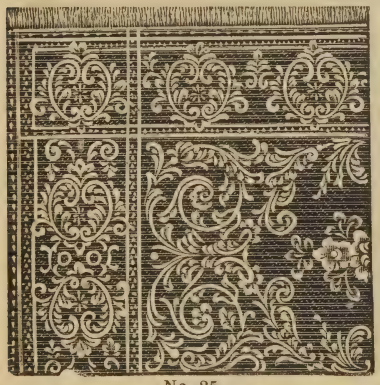


No. 55

LOT No. 985. On this page we show exact reproductions of three of the many varied patterns of the Wool Art Squares we have classified under this lot. Limited space prevents our illustrating all the patterns but you have our positive assurance that these rugs are the greatest values you ever saw and that our special attention will be directed to the filling of any order that calls for a special color combination. These rugs are absolutely brand new and come in the prettiest designs and colors imaginable. They are made of a very closely woven fabric and are wool filled. We guarantee the colors to be strictly fast, and if you paid over double what we ask you could not get a rug to wear half so well. These are as heavy and durable as can be desired.

They come in almost endless variety of beautiful colorings in handsome combinations of Reds, Greens, Blues and Tans We can give you Red backgrounds with Orange Figures having a harmonizing shade of black running throughout the weave which makes a fascinating color contrast; Shimmering Silver Shade background contrasted by Gold effect figures and deep black shades; Light Green background with Red Figures and shaded in a deep black, Orange background with White and Red effects; Red Scroll with Orange as predominating color beautifully contrasted by black shading. By noting illustrations on this page you will readily determine at a glance the handsome manner in which these rugs were woven. The designs are strikingly original and a close imitation of the high priced imported oriental rugs. The predominating patterns are either very handsome all-over patterns or striking medallions with extra wide border to match the center which consists of detached figures, with a very heavy fringe on both ends. This rug is reversible and of course more serviceable and adaptable than a great many of Art Squares sold throughout the country. You can't get a better wool rug than this nor a prettier one in design. WHEN ORDERING BE SURE TO GIVE FIRST AND SECOND CHOICE THAT WE MAY FILL YOUR ORDER WITH SECOND CHOICE IN EVENT OF THE COLOR MENTIONED AS FIRST CHOICE IS SOLD OUT BEFORE YOUR ORDER REACHES US. IF YOU WANT ANY SPECIAL DESIGN, WRITE US FULLY AND WE WILL GUARANTY YOU A SATISFACTORY SELECTION OR REFUND YOUR MONEY.

No. 50



No. 25

Sizes at present in stock and prices as follows:

9x6 feet	$2.85
9x7 feet 6 inches	3.45
9x9 feet	3.95
10½x9 feet	4.85
12x9 feet	5.85
15x12 feet	9.85

BE SURE AND ORDER BY LOT NO. 985

LOTS ARE SUBJECT TO 20 PER CENT DISCOUNT

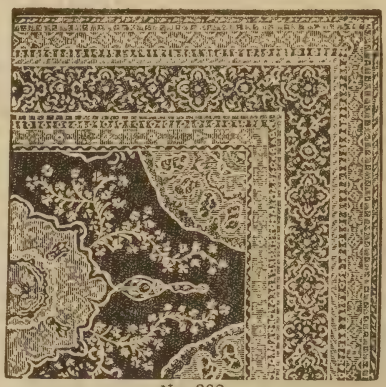
Mention Preference as to Color and Design.

BOUGHT AT AUCTION SALE 700 ALL WOOL REVERSIBLE ART RUGS

OFFERED AT ONE-THIRD ACTUAL VALUE
YOU CAN GET A FAIRLY LARGE SIZE RUG FOR $3.40

Positively the most marvelous and extraordinary bargain ever offered in high grade art rugs. These patterns represent the cream of this year's finest mills manufacture and are certainly exceptional values. Never before have these rugs sold at such unusually low prices.

LOT No. 700. As stated above this lot comprises 700 of the most handsomely woven and beautifully colored all wool art rugs ever offered. We bought these rugs at the sale of a bankrupt department store at such a low figure that we are now offering these amazing bargains to you at a price lower than has ever heretofore been offered. Your merchant could not buy a rug of this character in carload lots from the manufacturer at the price we quote. Remember we guarantee these rugs to be 30 to 60 per cent lower in price than what you can duplicate anywhere else. The illustrations portray the patterns exactly as they are, yet it cannot fully show the clear and distinct manner in which these patterns stand out and the rich and luxurious colors running throughout the rug. These beautiful Art Rugs come in three patterns just as shown in engravings.



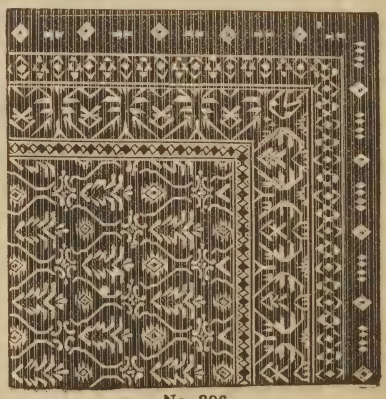
No. 302

PATTERN No. 302 is made in a beautiful scroll wreath design and has an interwoven border measuring 16½ in. in width. It has a most beautiful background of rich emerald green with a foreground in a rich shade of oak. We can also supply this pattern in a slightly larger figure. Latter comes in olive green, relieved by deep markings of ivory tints.

PATTERN No. 305. As shown in illustration this rug comes in an unusually handsome floral effect of unique design. This rug is most attractively interwoven in a highly magnificent manner, having beautiful shades of brown relieved by ivory tints. It is reversible, a very desirable feature, as it gives you the service of two rugs for the price of one. When reversed you have a different color combination from that of opposite side, which is a very attractive point in favor of this rug. Same pattern can also be supplied in a dark rich red background with a foreground of dark green and tan, also in a myrtle green of oak and light olive shades. This is just the thing for a parlor, bedroom or any other room requiring a rug that will stand hard usage and still retain its luster and bright colors.

No. 305

PATTERN No 306. We herewith show a most strikingly original oriental effect pattern, having an extra wide, finely designed border measuring 20 in. in width. Entire pattern consists of artistically detached figures, handsomely brought out clear and distinct. It is made in three beautiful color combinations, each of which is artistically perfect from every standpoint of view. One of these combinations comes in a rich dark brown background, the foreground of which is brought forward in a beautiful shade of old rose and gold. Tan ground is interwoven with a mixture of red and an extremely elaborate combination of various hues, all of which make this rug an exceptionally attractive and handsome work of art. Can also be had in a rich combination of two-toned dark maroon, contrasted by black and brought forward clear and distinct by a shading of myrtle green. If preferred, can also give same pattern in background of brown and tan interwoven, contrasted by various harmonizing shades. In buying these rugs you get the greatest equivalent for your money ever offered. We give below a full list of sizes in stock at present, but we advise all who want to take advantage of these remarkable bargains not to delay. Order now or you will run the risk of being disappointed. We anticipate a tremendously heavy sale. Never before have you been afforded such an opportunity as this to buy a Genuine All Wool Reversible Art Rug at a price that assures a positive saving of 50 to 60 per cent. We must insist that you give us first, second and third choice. That is, to be more explicit, that you mention when ordering what pattern and color you want and also what second choice will be in the event of first named choice being sold out before your order is received. Unless the immediate demand exceeds our stock we will in all probability be able to fill all orders for any special color for a limited time. We, however, advise that you do not delay. Quick action is what will count.



No. 306

Size		
"	9x6.. feet	$3.40
"	9x7=6 feet	4.00
"	9x9.. feet	5.65
"	12x9. feet Price...	7.00

Please note that these prices are the lowest ever quoted by any concern in existence during the last thirty years.

WONDERFUL RUG BARGAIN!

We Offer You the Choice of Any in This Entire Lot at a Positive Saving of 55 Per Cent. Now is the time to Buy and Take Advantage of These Magnificent Bargains. Don't Delay. Bargains Wait for No One.

$18.50—12x9 FT. SMYRNA RUG—$8.50

Lot No. 490. As Shown in Illustration This Extra High Grade Linen Fibre, 12x9 Foot Smyrna Rug is One of the Prettiest and Most Artistic Patterns Ever Offered for the Money. It represents the acme of perfection and is unquestionably the greatest bargain in a Smyrna Rug ever offered. It is very seldom, in fact it has occurred but twice in the last 30 years that a rug of this quality could be purchased as cheap as was this lot. The reason is that there has been but two failures in this line of any notable consequences.

An Opportunity to Purchase Such Remarkable Bargains is Never Liable to Occur Again. We urge all of our customers to consider the great value this rug represents, and send us an order before the demand exhanst our stock. Do not delay until it is too late. As shown in the illustration, it comes in a strong bold pattern. It has a beautiful Green and Ivory-Brown center, with a blue border surrounding the medallion. It has an 18-inch border of tan gold and green.

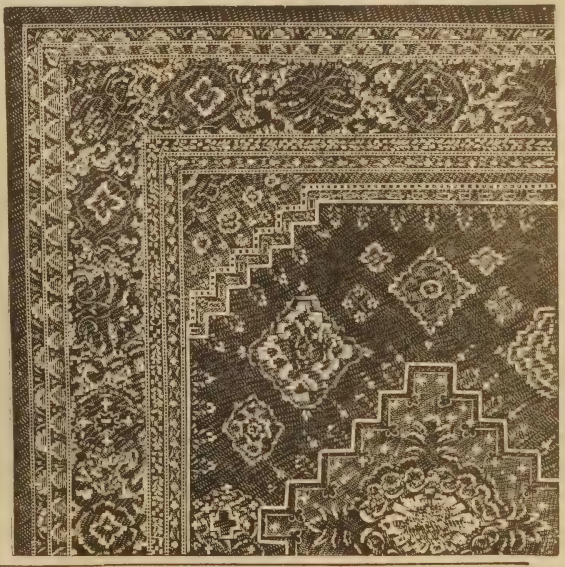
Price, 12x9 ft.....$8.50

Price. 10 ft. 6 in.x7 ft. 6 in. 6.75

The Most Remarkable Bargain Offered in Years

Lot No. 2. Any of the Rugs Included in This Lot are Sure to Please the Most Critical Customer, and you can order any one of these rugs from us with positive assurance that you are getting a bargain That will fill your most exacting requirements. Remember, these Smyrna rugs are of the highest grade manufacture, absolutely brand new and cannot be duplicated at our marvelously low price. As shown in cut, it comes in a very artistic design. It is double faced, and can be used on either side. This is a floor covering that will give a lifetime service. A few of this lot can be had in an Oriental pattern with background of red, green, and blue, and having harmonizing colors of other contrasting shades softening into the rarest harmonizing colors and most brilliant hues. Send us your order for this rug at once with the understanding that if it is not exactly as represented and the greatest bargain ever offered—you are at liberty to return it to us, and we will refund your money. Surely this is sufficient proof of the wonderful value we offer in this high grade Smyrna Rug.

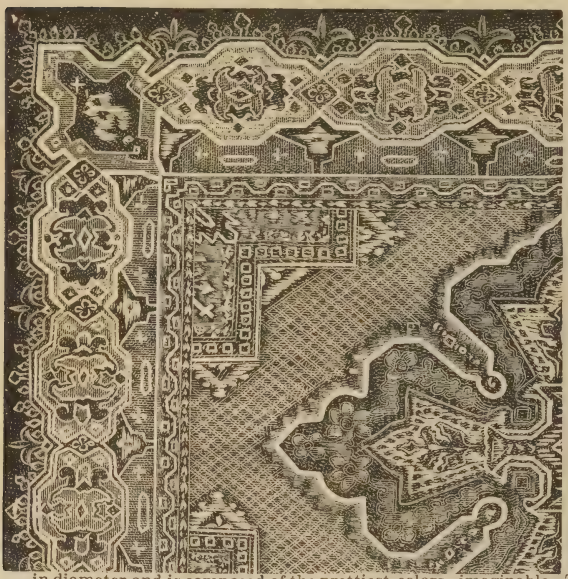
Price. 12x9 Feet..... $8.75



These rugs are ideal for dining and bed rooms. They are absolutely brand new and of perfect weave throughout. Money back if you don't think they are the greatest bargains ever offered.

$8.00 NINE WIRE BRUSSELS RUG $8.00

Size 10 feet. 6 in.x8 feet. 3 in.



Lot No. M20. This Illustration Reproduces Exactly the Rich Pattern in Which We Can Supply This Amazing Bargain. The pattern as you will note is fashioned after a very expensive India Rug, being an exact copy thereof. The magnificent color harmony found in this rug is the most perfect ever produced. These rugs must not be compared with the cheap grades offered at 20 to 30% more than our price.

Description. Background comes in a rich combination of Mottled Green in dark shades beautifully contrasted by brilliant Maroonand rich variegated hues. The beautiful Medallion is artistically worked out in a variety of the most attractive shades, the most prominent of which are Myrtle Green, shaded tan and Dark Red relieved by superb tints of Old Rose, Gold and Ivory. Nothing as exquisite was ever offered at double the price. Can also be furnished in a very rich, soft wine colored background with a heavy scroll border, the medallion of same being made up of an extremely artistic Colonial wreath effect in Myrtle Green, Maroon and a particularly beautiful shade of tan. This is a strikingly handsome pattern and will compare in coloring and pattern with the most expensive of domestic goods. The beautiful interwoven border measures 22 inches in diameter and is composed of the prettiest colors imaginable. This rug will certainly prove an exceptionally attractive pattern and we know it will make us hundreds of pleased customers. Value, $18.50. **Price,** 10 ft. 6 in.,x8 ft. 3 in. **$8.00**

12x9 ft. TAPESTRY BRUSSELS RUG $9.50

Lot No. 3. Comparison Will Demonstrate to Your Entire Satisfaction That It is Utterly Impossible to Duplicate This Amazing Rug Bargain Anywhere at the Sacrifice Price We Quote. Never in the history of rug manufacture has a Tapestry Brussels rug of this quality ever sold at so remarkably a low price. A Brussels Rug is universally recognized as one of the most durable and serviceable rugs made. They are suitable for all house purposes, and will give excellent service as a bedroom rug and will as equally well adorn the parlor. Carefully consider this great value. It will pay you to buy several of these rugs for your extra rooms at the low prices we quote. The pattern as shown in illustration is a beautiful all-over Oriental effect. It has an exquisite red ground with a foreground of two toned green suffused with gold and Ivory tints, making the color strikingly brilliant. The border combinations are of two toned Red, Old Gold, Myrtle Green and Tan. This is a wonderful bargain and must be seen to be appreciated. Please do not compare the quality of it with the rugs offered by regular mail order concerns. Rugs usually secured from these concerns do not in any way compare with the Quality we offer in this high grade floor covering,-unless you pay double our price. **Price 12x9 Feet. $9.50**

WRITE FOR OUR SPECIAL BARGAIN CIRCULARS

SEAMED WILTON VELVET RUGS $16.50

FULL ROOM SIZE, 12x9 ft.

IDEAL DINING ROOM RUG

Lot No. 7. Hotel and Boarding House Keepers Should Carefully Consider the Great Value We Offer in Rugs Listed Under This Lot Number. The wearing qualities and beautiful pattern will appeal to all. They are very attractive floor covering for dining rooms and in this capacity this pattern will be found adorning most of the dining rooms in this city. As shown it comes in a small all over pattern in a multitude of beautiful colors. The most attractive combination of colors is that of a tan background with a light shade of red, green and gold in the foreground. Border is a dark contrast of green, brown, tan and gold, As this lot of rugs is limited we urge you to place your order at once

Price, 12x9 Ft. $16.50

A WONDERFUL VALUE

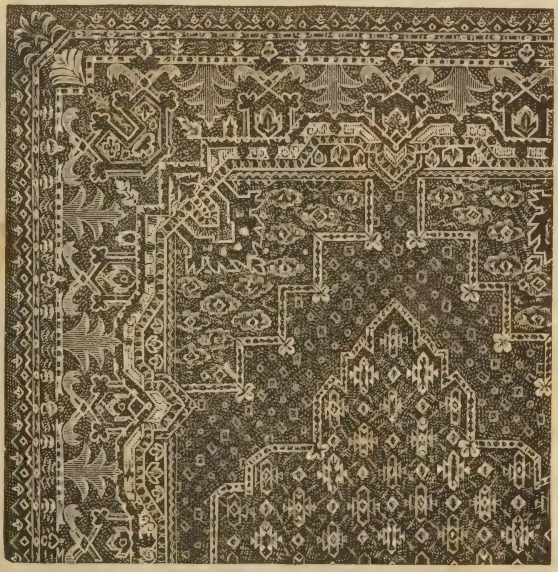
Guaranteed Beyond Duplication at Our Low Price

12x9 Feet SEAMED WILTON VELVET RUGS $16.50

Lot No. 8. We Offer This High Grade Seamed Wilton Velvet Rug at a Fraction of Its Real Value. This Rug is Very Much Used in Parlors, Libraries and Living Rooms. The rugs under this lot number come only in the Oriental and Medallion pattern shown in illustration. It can however, be supplied in a Variety of colors among which attention is especially called to one color combination that comes in a rich shade of red with a green ground. Another combination in which it comes is that of a two-tone shade of green in the center of medallion with Ivory and Gold tints running throughout pattern. The border colors come in a dark contrasting shade of red, green and tan, relieved by deep Ivory tints.

Special. On quantities of 6 or more of these rugs we will be glad to quote special prices. Get your friends to club together and order a number of these rugs and take advantage of the big saving we are able to offer on quantity purchases.

Price, 12x9 Ftee. $16.50



Our Unique Method of Purchasing Bankrupt Stocks Enables us to Give You the Advantage of Securing the Costliest and Best Merchandise Manufactured at Far Less Than What You Would Ordinarily Pay for the Poorest Grades of Home Furnishings. Remember You Run Absolutely No Risk Whatever. We Guarantee Satisfaction or Refund Your Money.

Brand New Wilton Velvet Rugs

At Less Than Cost of Manufacture.

Size, 12x9 feet, $17.50

Cut No. 7013

Lot No. 7013. Rugs the Equal of These Here Illustrated Have Never Sold for Less Than $30.00. The regular price of this rug throughout the country is $35.00. As shown in cut it is an exact reproduction of one of the highest grade Oriental Rugs on the market. These rugs are made of absolutely the best quality Wilton Velvet manufactured. It is very closely woven and is made on a linen warp. It is a very desirable floor covering suitable for parlor, library or dining room use. The wearing qualities of this rug cannot be excelled by any domestic rug made. Colors are fast and positively will not fade. In fact, you will find this rug to be just as bright and true ten years from now as the day you received it. With proper care this rug will last a lifetime. The clear and distinct arrangement of the figures running throughout the Oriental pattern must be seen to be appreciated. The photographic reproduction can give you but a faint idea as to the richness of the colors and the magnificence of the pattern. The medallion comes in a variety of exquisite colors, having as the predominating shade deep Myrtle green relieved by a maroon and light tan combination. It is contrasted by rich Ivory tints. A pretty maroon hue shades the entire medallion and makes the rug show up in a very attractive manner. The interwoven border is 17½ inches deep and is of a strikingly unique design having a combination of contrasting shades of dark maroon and Olive Green and Ivory tints and old rose as the lighter shades. This rug is considered by expert designers to be the most desirable pattern in domestic goods ever blended.

Price, 12x9 Ft. $17.50

A Beautiful Parlor Rug

Size, 12x9 feet,
Price, $17.50

Lot No. 9. High Grade Wilton Velvet Rugs. We can furnish the rugs listed under this lot number in either a dark or a light combination. The pattern as shown in this cut, is made with a beautiful cream and tan ground. The medallion is bordered with a wreath of roses and is banked in soft pinks and greens. The outer border is a beautiful floral scroll combination of pink, and green, gold and olive. The dark combination referred to is the same combination of colors with the exception that it has a green ground instead of a cream and tan ground. A wonderful bargain.

Price, 12x9 Ft. $17.50

Cut No. 9

Write for our special bargain sheet illustrating and describing wonderful bargains in Furniture, Carpets and Rugs. IF INTERESTED, send us your name and we will place it upon our mailing list and mail these circulars to you as published from time to time. Tell us what articles prove of most interest to you.

Highest Grade Seamless Wilton Velvet Rugs of the Costliest and Finest Grades at

WRECKING PRICES

BRAND NEW
Size 12x9 ft.

$20.50

Lot No. 15. Genuine Seamless Wilton Velvet Rugs. Rugs in this lot can be had only in the Oriental Medallion pattern shown in illustration. It has an ivory center with a red and green ground contrasted by harmonizing shades. It has a blue and ivory foreground. The outer border comes in a very rich green, gold and old blue combination. We also have about 34 of these rugs exactly the same pattern but with a green ground and red border. The beautiful colorings and rich pattern of this rug cannot be fully appreciated without seeing the rug itself. This is a rug that will liven up and add tone to any room where it is placed. Size, 12x9 feet. **Price**..... **$20.50**

Positive Double Value

SIZE 12x9 ft.

$20.50

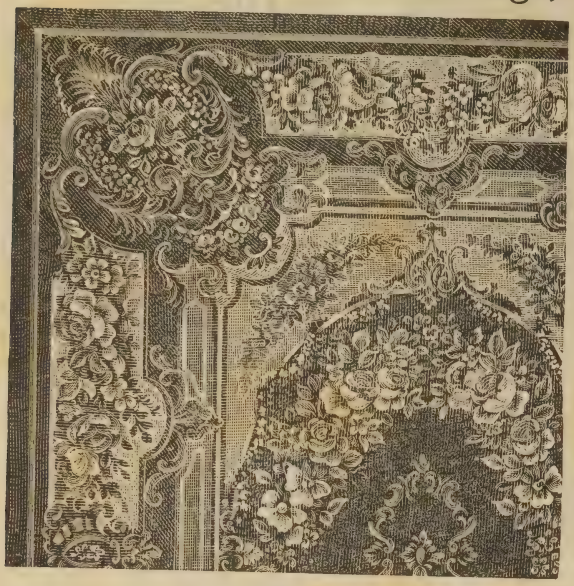
Lot No. 14. The Rugs we List Under this Lot Number have been Displayed in our Chicago Salesrooms and has met with such a heavy sale that we Decided to List them in our Catalogue and Permit our Country Patrons to Take Advantage of the Same Value as Seems to have Met with such Favor with our City Customers. The Seamless Wilton Velvet Rugs we offer in this lot comprise the finest and costliest grades. Nothing better can be desired. As shown, it is a beautiful pattern and comes in an exquisite floral and scroll effect. It has a light tan ground with the scroll in green and ivory. The floral effects are in pink and green contrasted by a border of dark green, pink and blue shades. The foliage is banked in clusters of the most beautiful color combinations. This is an ideal rug for general use and as such cannot be excelled by anything offered at double the price. Size, 12x9 feet. **Price**..... **$20.50**

ALL FURNITURE, CARPETS AND RUGS listed in this catalogue are absolutely brand new and of the finest manufacture. We positively do not handle goods we cannot conscientiously reccomend to giv entire satisfaction to our customers. Every item listed in this catalogue can be depended upon to be of the best quality and a wonderful bargain in the most strict sense of the word.

RUGS OFFERED SUBJECT TO PRIOR SALE

DON'T DELAY. SEND US YOUR ORDER AT ONCE

Highest Grade Axminster Rugs, Size, 12x9 Feet, $20.75



Lot No. 19. In Presenting This Lot of Axminster Rugs We Have Attempted to Collect the Cream of Our Stock and Embody Same in Lots Nos. 19 and 20. We Offer You Your Choice of any at a Price That, Quality Considered, is Far Below That Equaled by Any Other Concern. No matter how much money you wish to spend for floor covering it is impossible to get better Axminster Rugs than are offered in these lots. While we urge you to purchase an Axminster Rug from Lot No. 20 in preference to this lot, yet those who do not desire to pay the difference, will find the rugs in this lot equal in every respect to any you can purchase in the market at double the price we quote. As shown in illustration this rug comes in a beautiful Oriental pattern. It has a large red medallion bordered with a rich scroll, having a pink gold, green and tan mixture running entirely around it. The outer colorings of the medallion are light green, pink and gold contrasted by a border of red, light green, pink, gold and tan. Those who want to take advantage of a special bargain offering in high grade Axminster rugs will profit immensely by placing their order at once. They are offered subject to prior sale and certainly will not last long at the great reduction.

Price, 10 ft. 6 in.x8 ft. 3 in. $18.00
Price, 12x9 ft..... 20.75

$21.50 Buys This 12x9 Ft. Axminster Rug, $21.50

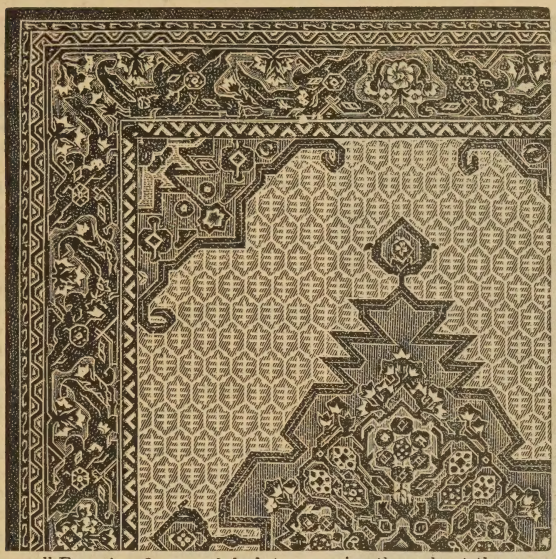
Lot No. 20. The Axminster Rugs Included in This Lot Can be Had Only in the Pattern Shown in Accompanying Illustration. The design is an exact reproduction of a very fine Oriental Rug. The groundwork comes in a very rich shade of Oriental blue, while the medallion effects are of red and green. The center medallion is entirely green, while the two outside medallions are red. The whole center is well covered with small Persian patterns of blue, olive green, tan, red and old blue. The border measures 27 inches in diameter and is interwoven with small Oriental patterns shaded by gold, old blue, red tan, Ivory, olive and cream, such as are often seen in the most expensive Oriental rugs. This is one of the most desirable Axminster rugs that can be had. We will not guarantee any certain color to remain in stock. In ordering be sure and mention first, second and Third choice. Offered subject to prior sale.

Price, 12x9 Ft.....$21.50

$35.00 12x9 Ft. Axminster Rugs $20.00

Warranted Absolutely Brand New and Perfect

An Excellent Parlor Rug



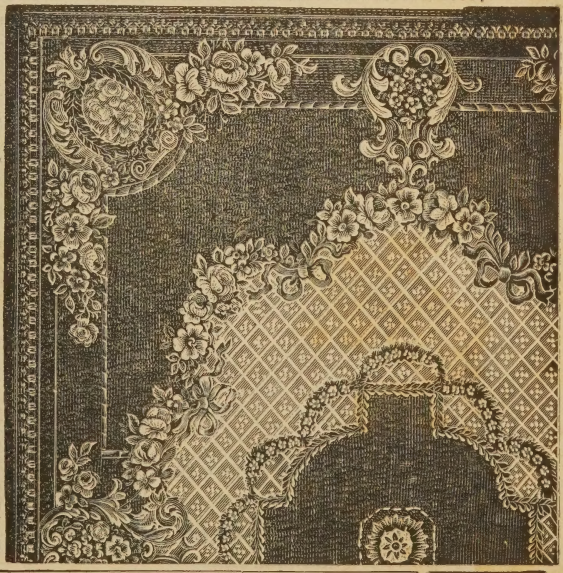
Lot No. 1222. If you were to pay $50 for an Axminster Rug you couldn't get handsomer designs or richer colorings than those included in this Lot. The cut here shown represents one of the most beautiful patterns in a high grade Axminster Rug ever displayed on the market. We secured a limited quantity of these rugs at a recent Bankrupt Sale and now offer them at a fraction of their real value. **Those wishing a first-class rug for office use** will find this rug a practical one, as it combines elegance and durability with exquisite color harmony and **will outwear the ordinary Axminster Rug.** They have an extra deep pile which is very soft and silky. The illustration will give you some idea as to the richness of the pattern, but of course as it only shows one corner of the rug you cannot fully judge the rug on its merits. If you purchase this rug and place it in your home, you will be surprised to note how beautiful and rich it appears. It will add color and tone to any room in which you place it. It is an exact reproduction of one of the highest class Oriental Rugs on the market. No floor covering known can compete in softness with an Axminster Rug of this quality; neither can as expensive a variety of beautiful color combinations be woven into a rug. This rug has been acknowledged by experts to be the prettiest design made in years. It has a shaded background of tan with small Egyptian figures of dark tan running throughout the ground work. The contrasting shades are of dark maroon, turquoise blue and dark green. The outlining proportions of medallion are of dark shades, while center of medallion comes in a beautiful camel's hair ground. The interwoven pattern is of navy blue, old rose, myrtle green and ivory tints. The entire background is contrasted by a handsome border of maroon, green and turquoise blue. We cannot guarantee any certain color to be in stock any length of time, owing to the fact that these rugs are offered subject to prior sale, but we will unquestionably be able to fill your order for any certain color if you will rush your order to us at once. Remember you run no risk. We guarantee absolute satisfaction or refund your money. Value, $35.00. Size, 12x9 feet. **Price.** **$20.00**

This Will Prove a Quick Seller

SEND US YOUR ORDER AT ONCE

12x9 AXMINISTER RUGS $20.00

Lot No. 18. High Grade Axminster Rugs of the Finest Quality. The rugs in this lot can be had only in the Colonial wreath design, as shown in the illustration. The extreme center of the medallion comes in a two-tone red and gold color combination. While the bordering colors of medallion are of tan and wood colors. The surrounding wreath consists of pink, green and tan tints bordered with a beautiful contrast of red, gold, green and pink. We also have about ten of these rugs that can be furnished in a green instead of a red medallion, as described above. This rug is absolutely guaranteed in every respect. Size, 12x9 feet. **Price** **$20.00**



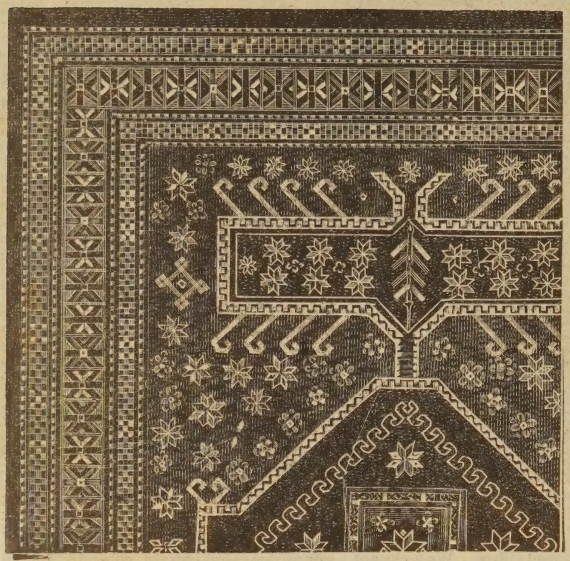
Glance over the excellent values we offer under the classification of "Miscellaneous Bargain Items," 50 to 75 per cent. saved on anything you buy from that list. Give it your attention.

Two Special Bargains!

Choice of Either of These Rugs at Less Than Cost. Don't Delay. Send Us Your Order at Once.

12x9 FT. AXMINSTER RUG, $23.40

AVERY LIBRARY COLUMBIA UNIVERSITY



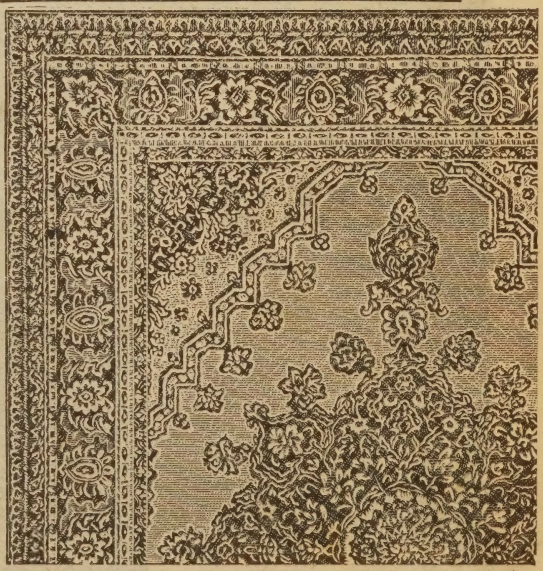
Positively Finest Obtainable.

Lot No. 23. Best Quality Axminster Rugs. This is Just the Rug for Your Parlor or Library. It is a strictly high-grade Axminster Rug of the finest grade and is one of the richest designs produced this season. The quality offered in this cannot be duplicated at any store for less than $48.00. Do not confuse the quality of this rug with that usually found in rugs of similar designs offered by various mail order concerns. We absolutely guarantee the quality, design and coloring of this rug to be the most perfect ever put in a rug. While the limited quantity on hand lasts they can be furnished in a very striking Oriental design, with dark green groundwork, having a medallion brought out in ivory, brown, green and rose. The border colors are very artistically contrasted in blue, green and golden. If you appreciate a genuine bargain, send us your order to-day—NOW.

Price, 12x9 Ft. $23.40

12x9 Ft. Seamless Wilton Velvet Rugs, $19.60

Lot No. 3071. A Very Special Bargain Lot of High Grade Rugs Secured at a Recent Manufacturer's Sale. Money cannot buy finer Wilton rugs than those here offered. Our stock includes the finest ever produced—Positively the cream of the richest and costliest designs made this season. An ideal rug for the parlor, library or dining-room. Has an extra heavy pile, rich silky surface; comes in dark Oriental pattern, as shown in illustration. The cut is an exact photographic reproduction of the rug itself. Will positively lay flat on the floor without a wrinkle. Both ends have a heavy reinforced hem. It is made in two beautiful color combinations. One with the rich red Oriental ground having the medallion thereof brought out in clear contrasting colors of Myrtle-green and Gold; has small corner medallions in gold and green all of which are set off and brought out by a beautiful 17 inch border, having an ivory tinted mixture contrasted by maroon and golden. The other shade comes with a tan ground, intermingled with shades of gold. Those who prefer a dark Oriental rug, can have it in a rich dark red background brought out distinct by harmonizing hues of various shades. You may order this rug with the positive assurance you are getting the best Wilton rug bargain ever offered. Actual Value, $40.00. **Price, ... $19.60**



If you do not see what you require in rugs in this catalogue, write us at once, stating your wants Our stock is to vast to permit of cataloging it in its entirety. If we have the article you desire in stock we will be only too glad to submit quotations thereon to you. Let us hear from you at once.

OUR CATALOGS AND PUBLICATIONS.

This Catalog is known as our General Catalog containing a record of all the various lines we have for sale. It does not, however, embrace by any means our entire line of merchandise. We issue various publications specially devoted to topics as described below.

OUR FURNITURE CATALOG.

We publish a Catalog of 250 pages, containing a complete description of all kinds of Carpets, Rugs, Household Goods, Office Fixtures and various supplies secured by us at Sheriffs', Receivers', Manufacturers', Underwriters' and other Sales. It contains reproductions in colors of Rugs and Carpets, and is a complete book in every way. We will mail it on application.

OUR BUILDING NEWS.

Here is a pamphlet of 64 pages or more that contains the pith of building information. It's a method we adopt to furnish from time to time information along building lines. It gives you our latest quotations on Lumber, also on Sash and Doors. Tells you about Roofing and everything needed in the construction of an ordinary building.

It is something that any contractor or prospective builder cannot afford to be without. It makes you wise to many points. We mail it regularly free of charge upon application.

OUR BOOK OF PLANS.

Of all our publications nothing gives us more pride than this same **"Book of Plans."** It is an evolution in the building line that has been the most wonderfully successful of all our past efforts. This Book of Plans contains over fifty designs of the latest and most approved kind of houses, barns and general buildings. It's just the thing for the modest man or woman who has longed for a home of their own.

Not only do we give you the designs, but we propose to furnish every article needed for the construction of these buildings and we tell you outright what the cost will be. We can supply the Plumbing and Heating and in addition we can furnish complete a set of blue prints and specifications.

It is a handsome publication and is mailed without charge to builders, contractors or home seekers.

HARDWARE NEWS.

This publication is issued by us from time to time and is devoted to articles of Hardware interest. It is intended exclusively for the Hardware Merchants or for the General Store and is not intended for consumers, as it only calls attention to quantities of articles in those lines. If you are a merchant and will send us your business card, we will cheerfully send you this pamphlet and place you regularly on our mailing list.

COLD WEATHER COMFORT.

This book is all its name would imply. It's the means of living in comfort even though your home be on a farm. It's the evolution of the heating idea brought right up to this very minute. It's the means of supplying yourself at a low cost a modern hot water or steam plant. Any man can install it with the aid of our comprehensive instructions.

It also gives you copies of letters received from hundreds of satisfied purchasers in the past. If you will send us a sketch showing the general construction of your building, we will estimate the cost of a modern heating plant.

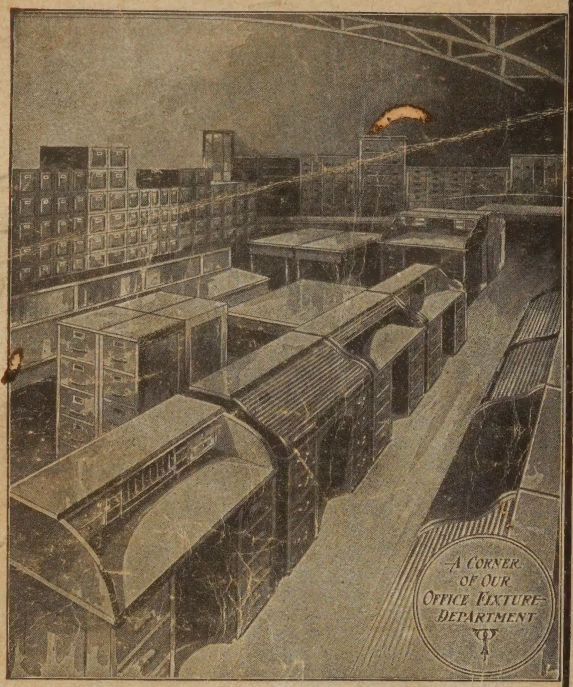
Besides covering the question of Heating this book goes deeply into the question of pneumatic Water Works Systems for the farm. We can furnish you a plant to supply you with water, just the same as though you lived in the city and at prices ranging from $48.00 up.

This book also contains many salient facts bearing on sanitation. It tells you the correct method for the installation of your Heating and Plumbing.

MANY OTHER PUBLICATIONS.

We also issue from time to time pamphlets such as "Machinery News," "Structural Iron News," **"Furniture News"** and phamplets devoted to specific lines. You are safe at any time in writing us your wants. Chances are we have your needs in stock and we will sell you your requirements at genuine **"wrecking prices."**

OFFICE FURNITURE, DEVICES, ETC.



We Especially Call Your Attention to Our Stock of

Office Furniture

We can supply your every want. In every case our prices are lower than any regular merchandise institution.

CHICAGO HOUSE WRECKING CO.
35th and Iron Streets,
CHICAGO

MR. BUSINESSMAN:—

Here's a plain statement of facts. **The Chicago House Wrecking Co.** is constantly buying high grade Office Desks and Furniture at various Manufacturers' as well as at Sheriffs' and Receivers' Sales.

This means that we can supply you with everything you need in your office at a very great saving. There is no limit to the amount you can save. We especially urge that at your convenience you visit our main display rooms at 35th and Iron Sts. in Chicago and gaze upon as large a display of high grade Office Desks as can be seen anywhere. The very best factories of America contribute to our stocks.

Sometimes it is from Underwriters' Sales. Quite an amount of the Office Furniture we have on hand represents rebuilt material that is absolutely new and that was originally slightly damaged by fire or water. Three such stocks recently came into our possession. The major portion is strictly clean, brand new merchandise. We can furnish your office with everything needed to do business with except the business.

This catalogue was complete at the time we went to press, but as we are constantly adding to our stock we unquestionably have received much additional material. In the event you cannot make selection of your needs from this book, send us a memorandum of just what you require and we will be glad to make you our very lowest estimate. We guarantee you absolute satisfaction. When you buy from us it is a certainty you will get what you are bargaining for. In the event you find it to the contrary we will most certainly protect you as outlined in our broad and binding guarantee.

All goods are packed and shipped with the utmost care. Long experience has taught us the necessity of this and the goods will come to you correct and exactly as described.

As our line includes besides Office Furniture general supplies such as Machinery, Hardware, Plumbing and in fact every required line, there ought to be but little difficulty for you to make up quite a large order, and if you haven't one of our General Catalogs in your possession showing our regular line of merchandise we would be pleased indeed to send you a copy of same. It is cheerfully mailed without charge on application.

We also issue several special catalogs and pamphlets, which we mail according to your needs. All prices are strictly net cash and goods are quoted subject to prior sale.

CHICAGO HOUSE WRECKING CO.—CHICAGO